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STATE OF COLORADO
BUREAU OF MINES
State Capitol, Denver
JOHN T. JOYCE, Commissioner of Mines

ANNUAL REPORT FOR
THE YEAR
1926



Denver, Colorado
Bradford-Robinson Printing Co.
1927

Wm Cope Brown

STATE OF COLORADO

BUREAU OF MINES

State Capitol, Denver

JOHN T. JOYCE, Commissioner of Mines

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ANNUAL REPORT FOR
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1927

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LETTER OF TRANSMITTAL

To His Excellency,
THE HONORABLE WILLIAM H. ADAMS,
Governor of Colorado.

Sir: In compliance with Section 3392 of the Compiled Laws of Colorado, 1921, I have the honor to transmit herewith the Annual Report of the State Bureau of Mines for the year 1926 including the Financial Report for the biennial period 1925-1926.

Respectfully submitted,

JOHN T. JOYCE,
Commissioner of Mines.

State Capitol,
Denver, Colorado,
May 10, 1927.

FINANCIAL STATEMENT

1925-6

Appropriation for the fiscal years 1925-1926—

Salary, Commissioner	\$ 6,000.00
Salaries, Inspectors	20,000.00
Salary, Clerk and Assistant Curator....	3,600.00
Salary, Stenographer and Asst. Clerk....	3,000.00

Traveling Expenses, Commissioner.....	\$ 3,200.00
Traveling Expenses, Inspectors	14,400.00

Incidental Fund	\$ 2,000.00

	\$52,200.00

DISBURSEMENTS

Salaries—

Commissioner	\$ 6,000.00
Inspector, District No. 1.....	4,999.92
Inspector, District No. 2.....	4,999.92
Inspector, District No. 3.....	4,999.92
Inspector, District No. 4.....	4,999.92
Clerk and Assistant Curator	3,600.00
Stenographer and Assistant Clerk.....	3,000.00
Unexpended Balance .....	.32

	\$32,600.00

Traveling Expenses—

Commissioner	\$ 3,200.00
Inspectors	13,958.58
Unexpended Balance	441.42

Incidental Expenses	\$ 1,955.49
Unexpended Balance	44.51

	\$52,200.00

PERSONNEL OF THE BUREAU OF MINES OF THE STATE OF COLORADO

JOHN T. JOYCE, Commissioner of Mines:	Denver
T. R. HENAHEN, Inspector, District No. 1.....	Denver
M. J. McCARTHY, Inspector, District No. 2.....	Canon City
R. J. MURRAY, Inspector, District No. 3.....	Salida
M. L. ANDERSON, Inspector, District No. 4.....	Telluride
MISS ETHEL M. FLANDERS. Chief Clerk.....	Denver
MRS. A. M. NICKERSON, Stenographer.....	Denver

DISTRICTS OF INSPECTION

DISTRICT No. 1—Moffat, Routt, Jackson, Grand, Larimer, Boulder, Gilpin, Clear Creek, Jefferson, Denver, Weld, Adams, Arapahoe, Morgan, Logan, Sedgwick, Phillips, Washington and Yuma Counties.

DISTRICT No. 2—Douglas¹, Elbert, Teller, El Paso, Fremont, Custer, Huerfano, Las Animas, Pueblo, Lincoln, Kit Carson, Cheyenne, Kiowa, Crowley, Otero, Bent, Prowers and Baca Counties.

DISTRICT No. 3—Rio Blanco, Garfield, Mesa², Delta, Eagle, Summit, Pitkin, Lake, Park and Chaffee Counties.

DISTRICT No. 4—Montrose, San Miguel, Dolores, Montezuma, Ouray, San Juan, La Plata, Gunnison³, Hinsdale, Saguache³, Mineral³, Rio Grande, Alamosa, Archuleta, Conejos and Costilla Counties.

¹ The northern part of Douglas County has been temporarily transferred to District No. 1.

² The southwestern part of Mesa County has been temporarily transferred to District No. 4.

³ That part of Saguache County lying east of the Continental Divide, the northern part of Gunnison County and Mineral County have been temporarily transferred to District No. 3.

INTRODUCTION

The activities of the Bureau of Mines during 1926 were confined to the usual routine, no funds for any special work being provided.

The four inspectors visited practically all of the operating metal mines, quarries, mills, smelters and railroad tunnels at least once during the year. Most of the larger operations were inspected more than once. The object of these inspections is to eliminate, as far as possible, unsafe conditions and practices. In general, this work meets with the lively co-operation of the mine operators.

The Commissioner and Inspectors are anxious to help the mining industry in every legitimate manner and wish to be called upon whenever their services can be used.

Inquiries regarding the mines and mineral resources of the state and questions regarding the demand and market for less common mineral products are constantly coming into the Bureau. An earnest endeavor is made to furnish the information desired. Helpful co-operation is often received from the Colorado Geological Survey, the United States Bureau of Mines and the United States Geological Survey.

On account of lack of funds it has been impossible to give the State Mineral Collection the attention it deserves. During the past year several new specimens have been received.

The Commissioner takes this opportunity of expressing his appreciation of the loyal and efficient services that have been rendered by the entire personnel of the Bureau during the past year.

METAL MINING IN 1926

The total output of gold, silver, copper, lead and zinc from the mines of Colorado during the year 1926 amounted to \$20,482,081, a decline of \$369,186 from the total output of the preceding year. The decrease was largely due to the suspension of shipments from the Cresson Mine at Cripple Creek during the months of July, August and September while the main working shaft of the mine was being retimbered, a temporary curtailment of shipments by the Empire Zinc Company of Eagle County, and the balance to the decline of seven cents per ounce in the yearly average price of silver. In the order of total production, the leading seven counties were as follows: Teller, San Juan, Lake, San Miguel, Dolores, Eagle and Summit. In gold production Teller was first, San Miguel second, Lake third, San Juan fourth, Boulder fifth, Rio Grande sixth and Clear Creek seventh. In silver San Miguel was first, San Juan second, Lake third, Mineral fourth, Clear Creek fifth, Pitkin sixth and Saguache seventh. Lead, San Juan first, Lake second, San Miguel third, Dolores fourth, Pitkin fifth, Saguache sixth and Summit seventh. Zinc, San Juan first, Lake second, Eagle third, Dolores fourth, Summit fifth, Gunnison sixth and Pitkin seventh. In the production of copper there was a decided increase, San Juan leading with 1,614,000 pounds, and Saguache second with 803,000 pounds as against 1,500 pounds in the latter county in 1925; the remaining five counties of the leading seven ranging from 100,000 to 300,000 pounds. Despite the temporary suspension of shipments from the Empire Zinc Company, which resulted in a heavy decline in the output of Eagle County, there was a remarkable and very significant increase in the production throughout the state in both lead and zinc over the production of the previous year. The three leading counties in which heavy gains were made in lead and zinc production were Dolores, with a practical gain of 160 percent in both metals; Lake, with an increase of about 30 percent in lead and about 70 percent in zinc, and Chaffee with nearly 300 percent gain in both metals.

With the Cresson and Empire Zinc again in full swing and producing on normal basis, the notable increase mentioned, the unwatering of the Down Town Mines at Leadville negotiations for which are now well under way, the resumption of scores of old mines in every mining camp in the state containing known and in many cases well developed bodies of low grade sulphide which in the past were too rebellious and refractory to be operated at a profit but which by the installation of modern methods of concentration, separation and reduction will now yield substantial profitable returns, an enormous annual increase seems inevitable for many years to come.

Thus it is obvious that the slight decrease in the state's an-

nual production for 1926 as compared with 1925 does not in a comparative way reflect the notable increase in activity in the various mining districts of the state. As a matter of fact, metal mining in Colorado has not in many previous years been more active and prosperous than it has during the year 1926.

The proven success of newly discovered processes by advanced metallurgy for the treatment of low grade complex rebellious ores, such as are known to exist in large veins and deposits in many old mines fairly well developed and also in new mines and prospects undeveloped in most of the mining sections, has resulted in a widespread revival in the mining industry. But, unlike many of its neighboring states, Colorado was not so equipped with numerous and immense smelting and milling facilities and other conveniences by reason of which it could take immediate advantage of these improved conditions and thereby realize quick and potential results from the product of its mines. New mills had to be erected, old ones rebuilt and supplied with new machinery, new roads constructed, new power lines installed, development work planned and vigorously pushed before the mines on which these new improvements were placed could hope to be classed among the producers of the state. All this has been done in a number of our mining camps and in every case most gratifying results have been obtained. The year was well gone, however, before a small number of these new enterprises became shippers. The larger number are still in the developing and constructing stages and are making rapid progress. With very few exceptions, they will in all probability become heavy and important producers during the coming year. One of the most inspiring and significant phases of the mining revival was the return of the old-time prospectors in large numbers as shown by the inspectors reports, and the startling results of their work and toil in a single season are told by the many new important strikes in various parts of the state.

It is admitted by all who are familiar with the metal mining industry in the Western fields, that the State of Colorado has the most extensive and least developed mining area of any state embraced in that rich and expansive territory. According to statistics gathered from geological surveys, there are upwards of 30,000 square miles of highly mineralized land in Colorado, lying almost entirely within that part of the state extending west from a north and south line drawn through the city of Denver, practically Range 68 West of the 6th Principal Meridian to the eastern line of Utah, and from the State of Wyoming on the north to New Mexico on the south. Less than one-quarter of this vast area has been thoroughly prospected and less than one-tenth well developed. Not many years ago the yield from this small developed fraction of her rich and varied mineral resources Colorado held a position high among the leading states of the Union in the total production of the precious and industrial metals. Even though the mining industry was hit harder and suffered

more in this state than perhaps in any other of the Western fields, Colorado still holds a commanding place among the leading metal producing states of the Union. In 1923, 1924 and 1925, (the figures for 1926 are not yet available) it ranked second among the mineral producing states, including the territory of Alaska, in gold production. In 1925 California ranked first with a production of 630,021 fine ounces, Colorado second with 349,607 fine ounces and Alaska third with 290,448 fine ounces. In silver it ranked seventh and in lead and zinc it stood fifth. In view of the fact that this entire production came from a meagerly developed fraction of less than one-tenth of the highly mineralized area of Colorado as above described, the showing is indeed remarkable.

In early periods of mining in Colorado only ores carrying very high grade gold and silver could be handled at a profit because of inadequate means of treatment and the difficulties of transportation. It was not until the discovery of large deposits of lead-carbonate ores carrying high values in gold and silver at Leadville, which was followed by a rush of smelters into the various mining districts of the state that a partial relief was realized which permitted the profitable operation of mines having an average medium grade of ores. This was followed by what may be termed the period of concentration. Scores of processes were introduced, and while a few were highly successful for certain character of ores for which they were specially designed and adapted, and others partially successful, the larger number were complete failures.

The few complete and partial successes mentioned resulted in the profitable operation of a few mines of comparatively low grade here and there in different parts of the state, whose ores were amenable to some such particular process. Only in rare instances, however, if at all, can it be said that success was achieved to any marked degree in the treatment of refractory lead-zinc-copper-iron sulphide ores, especially those that were low in gold and silver values until the introduction of flotation, and even straight flotation was found faulty on heavy zinc ores where almost perfect separation of the zinc was necessary to save the shipper from heavy penalties.

This condition prevailed until the recent discovery by advanced modern metallurgy of selective or differential flotation and other processes, combined with far more liberal policies and schedules on the part of the smelters over those of the past, by reason of which very low grade zinc-lead sulphides can now be profitably handled.

Thus it may be said that these newly discovered processes and better smelting schedules are the keys to a combination that will unlock the doors to the innermost treasure vaults that lie buried within the recesses of our mountains and hills. But to complete the combination one more key appears to be necessary, and that is "development."

There are many well known heavily mineralized sections of the state that have never been thoroughly prospected because of their early day remoteness, which at the present time, with modern advancement made in the means of transportation coupled with new metallurgical inventions, offer promising and fruitful fields.

Frequent reports of rich discoveries in the very heart of such well known mining districts as Cripple Creek, Leadville, Aspen and the San Juan Triangle, the counties of Boulder, Clear Creek, Gilpin, Park, et al. very strongly imply that even the older districts were not thoroughly prospected.

It is a well known fact that in early day prospecting scores of immense ledges and vein outcroppings of heavy zinc-lead sulphides were discovered in all parts of our mining fields, which were of a grade too low and also too refractory and rebellious to permit of profitable operation at that time. They were only meagerly developed, if at all, and in most cases abandoned. Under present conditions nearly every one will yield handsome profits when properly developed, equipped and operated.

Our mountains are teeming with mines and prospects of this character and the crying needs of the hour to bring them forth as profitable producers are intensive and courageous development, greater milling facilities by the installation of improved modern machinery and processes, enlarged and more accessible smelting facilities and more liberal treatment schedules.

CONDENSED REVIEW OF THE MINING DISTRICTS

District No. 1, By T. R. Henahen

During the past year the northern and northwestern counties in District No. 1 were in a prosperous condition.

Boulder County—Tungsten mining in Boulder County is more active and profitable than at any time since 1918. Immediately after peace had been declared in the World war the price of tungsten dropped so low that the mines were closed down. In 1925 the American steel manufacturers again began using tungsten in their high grade steel, which resulted in a rapid and material advance in price, and accordingly the mine owners are operating now at a profit instead of a loss.

There has been and is a great deal of activity in the metal mining industry and some new discoveries have been made and many of the old mines have been reopened. There are approximately 30 or more mines in operation in this county.

Clear Creek County—There was a notable and healthy increase of mining activities in Clear Creek County during 1926. This historic old county was at one time classed among the greatest producers of the state. But, since the dismantling of the smelters

at Denver and Pueblo, which compels the mine operators to ship to Leadville under heavy transportation charges, there has been a marked decline in its annual production. With accessible smelting facilities it would soon regain its former position among the larger producing counties of the state. Among the producing mines in the county in 1926 may be mentioned the Crazy Girl, Cyclone, Dives Seven-Thirty, Freeland, Edgar, Kelso and Josephine, Lincoln, Mammoth, Silver Leaf, P. T., Red Elephant, West Gold and St. George.

The most important news of all in this county is the reopening of the Newhouse tunnel by Sparks & Thorne. This project is the key to the mines located along the line of this tunnel in Clear Creek and Gilpin Counties. If these gentlemen are successful in their undertaking and unwater the mines on Quartz Hill, which I have every reason to believe they will, they will restore these two counties to their former places as the two leading producing mining counties in Colorado. During the year there were 60 or more mines in operation in this county, the larger number of which are in a stage of advanced development, and will, with few exceptions, be listed among the producing mines of the state in 1927.

Gilpin County—Gilpin County is one of the oldest and one of the most productive mining counties in Colorado. The records show that it has produced something like \$300,000,000 in gold. The truth is that this county has produced millions of dollars of which no record has been kept. In the early 60's thousands of tons of high grade ore and concentrates were shipped to Swansea, Wales, for treatment, for which no record is obtainable. Every man and school boy familiar with history in the days of 1861 to 1865 can tell you that the little Kingdom of Gilpin saved this Union with its gold production when this country needed gold and silver to maintain its credit among the nations of the earth. In the years to come it will still be producing these metals for the benefit of mankind.

The reopening of the mines at Black Hawk, Quartz Valley, Quartz Hill, Russell Gulch, Rollinsville and Perigo will put this county, in 1927, among the leading producing counties in this state. About 50 or more mines were active during the year.

Grand County—Grand County is one of the most promising mineral counties in the state, considering the amount of development work done in the way of mining. I am of the opinion that when that section of country lying north and west of Jones Pass is thoroughly prospected for a radius of 10 miles square, which would carry you to the peaks above Williams Forks to the south and west and beyond Mt. Vasquez to the north and east, that there will be found gold, silver, lead, copper and zinc mines that will be almost inexhaustible for many years to come.

The veins are fissures and well defined and the mines will be found mostly above timberline. There is an abundance of

timber and water available for mining and milling purposes in this section. It offers a very enticing field for prospectors. There are three mines in operation in Grand County at the present time.

Larimer County—Considerable prospecting is being done in the Manhattan district and there are five mines in operation.

Routt County—Routt County is one of the most highly mineralized sections of Colorado. The section in and around the Hahns Peak district has been overlooked by the prospector. From the amount of gold produced from the placers at the base of Hahns Peak, I believe there should be rich gold veins found in that vicinity with proper prospecting. There are four mines in operation at present.

District No. 2, By M. J. McCarthy, State Mine Inspector

Custer County—This county has six metal mines in operation and several prospects. The Verda and Rayida which have been idle for several years are now operating. The Verda mine has a very good showing of fair grade silver-copper ore. The new Vidler shaft on the Passiflora property, which has been idle for several months, has again started operations. There is a very good showing of a lead-silver-copper ore in the bottom of this shaft. The Terrible mine is the largest and most extensive operating mine in Custer County. This mine is located at Ilse and employs about 85 men. The production is about 10 tons of lead concentrates per day and they expect to double this by the first of January, 1927. The concentrating plant at the mine handles about 100 tons of crude ore per day, producing 10 tons of concentrates. The present depth of the shaft is 400 feet and extensive bodies have been opened up on the new levels, 3 and 4.

El Paso County—The mill of the Golden Cycle Mining & Reduction Company at Colorado Springs is in operation with a total of 200 men employed, and has a capacity of about 24,000 tons per month and has been operating almost to its limit for several months past. About 90 per cent of the ore treated at the Golden Cycle mill is produced from the mines of the Cripple Creek district.

Fremont County—There are two zinc plants and the Cotopaxi metal mine operating in this county.

Teller County—There are 45 metal mines, which does not include many prospecting outfits, in operation in Teller County; also the Portland cyanide mill, which has a capacity of about 20,000 tons per month, and the Eagle sampling plant, with a total of 1,050 men employed. The Cripple Creek district pays better wages, offers better living conditions, provides better transportation and working conditions than any other mining district in the state. The production for October of this year was \$540,927.99, compared with a production of \$500,000 in October, 1925.

The recent new strikes in the district have very materially stimulated mining interests. The recent discovery on the *Plutoocrat* claim on Mineral Hill has caused an excitement unequaled in Cripple Creek in the last 15 years. It was also the cause of many new sets of prospectors starting operations on other claims surrounding the *Plutoocrat*. Four carloads of ore have been shipped, the first giving returns of \$7.40, the second \$21.50, the third \$106.50 per ton gold, and the fourth \$107.50. The uniformity of grade of the last two shipments is the most assuring feature of this new and very important strike.

The recent discovery of a new body of ore on the third level of the Lee shaft of the *Isabella* mine is very likely to lead to one of the largest discoveries of gold ore made in the district in recent years, from which they are mining a grade of ore giving returns ranging from \$50 to \$1,200 per ton. The several mines of the Cripple Creek district are shipping better than 20,000 tons of ore per month to the *Golden Cycle* mill in West Colorado Springs.

The Cresson Consolidated Gold Mining & Milling Company's shaft is 2,400 feet deep. The 17th level of the mine is connected with the Roosevelt deep drainage tunnel. All water below this level is pumped to the drainage tunnel, the amount being about 4,200 gallons per minute. The Cresson company has recently retimbered about 325 feet of their working shaft which places it among the best shafts of the district. The company's production is better than 10,000 tons per month and the average value about \$15 per ton.

The main shaft of the Portland Gold Mining Company is 3,135 feet deep. The company is making a production of from 15,000 to 20,000 tons of ore per month. Some of the higher grade ore is shipped to the *Golden Cycle* Mining & Reduction Co.'s plant at Colorado Springs. At present the company is cutting a large pump station on the level between the winze and the main shaft, from which a drift is being driven to connect with No. 2 shaft. Based upon the judgment of Superintendent Jones, who has never failed in his predictions, the management is very optimistic regarding the values to be found in the ore shoots when encountered. If this proves true the Portland Mining Company will be more prosperous than ever. In fact this company has enough low grade ore opened up on the different levels of their mine from surface to the 3,000-foot level to keep the mill running at its present capacity for the next ten years. This company has recently acquired the property of the *Last Dollar* Gold Mining Company and at present they are operating the same very successfully on the leasing system.

The United Gold Mines Company is now operating the *Vindicator* and the *Golden Cycle* mines, the *Rose Nicol*, the *Trail Tunnel* and many other smaller mines in the district, including the *Jerry Johnson*, which they recently started to operate on the leasing system.

The Granite Gold Mining Company, which recently acquired the Tonopah Mining Company's holdings formerly known as the Ajax mine, is doing exceedingly well. They are shipping about 30 tons per day of ore which has an average value of better than \$25 per ton gold. At present they are operating through the Ajax shaft and also the Dillon shaft, with an average force of about 70 men.

The Queen Exploration, Inc., with John Tate Milliken as general manager, now operating the Queen Gold Mining Company's property through the Elkton shaft on the Roosevelt deep drainage tunnel level, has opened up some very nice ore bodies of a fair grade and anticipates reopening and retimbering the Queen Gold Mining Company's shaft and connecting the workings of the same with his new discovery on the Roosevelt tunnel. It is the intention to connect the Queen shaft with the drainage tunnel and do all work through this shaft. Mr. Milliken is among the old-time prospectors and mining men of the district and is entitled to great credit for the good work he has been doing on the Queen property during the past year.

The Reclamation Metal Mines Company, which stopped work a few months ago, has again started operations on the Sangre de Cristo mine with good prospects.

The Stratton lease with A. F. Carper, manager, has done more good work and has expended more money for development work in the last two years than any other outfit in the Cripple Creek district. Their work has been A-1 in every respect and they are entitled to the best possible results, and every indication points to the opening up of a real gold mine within the next year. At the present time Mr. Carper is having three diamond drill holes put down on the property which is owned by the Stratton Cripple Creek Mining & Development Company. Each of the holes will be drilled to a depth of 2,000 feet. The present drilling is being done on Globe Hill.

The Right-All-Right group of claims about 25 miles on the north slope of Ironclad Hill was recently purchased by Boston capitalists from the Seaman estate of Denver. According to J. A. Hinds, a mining engineer and a graduate of the Colorado School of Mines at Golden, work on this new mining venture may start about Jan. 1, 1927, with Mr. Hinds in charge.

Mining conditions throughout District No. 2, and especially in Cripple Creek, have picked up very much in the past six months with all indications pointing to a greater activity for 1927.

District No. 3, By R. J. Murray, State Mine Inspector

Lake County—Of interest at this time is the proposed unwatering of the Down Town mines by ex-Governor McDonald and his associates; also the de-watering of the entire Fryer Hill by Page, Nicholson, Rodman and others. These two propositions signify much for the future of Leadville, as it will mean more con-

tinuous mining and will ultimately increase the tonnage of ores from this camp and also attract new mining enterprises. The large shippers are the Deep Mines Company which is sending out about 8,000 tons monthly of silver-lead-zinc sulphide ores, and the Climax Molybdenum Company, producing around 20,000 tons monthly of crude ores for milling. The Ibex, Yak, Star and many others too numerous to mention are all producing good tonnages of ore, while the A. V. Smelter and different mills and the zinc-oxide concentrating plant make Leadville's payroll compare favorably with any of the mining counties.

Eagle County—The Empire Zinc Company's group of mines, situated on Battle Mountain, is one of the largest producers of zinc-lead sulphide ores in the state and from the standpoint of tonnage and values is one of the best mines of its kind. Other operations are also under way in this county, particularly in the Eagle Fulford district. A reported fabulous find of placer gold has sifted out lately. This particular section has been known to have gold values for some time past. A company is under way and is promoting the building of a new dredge.

Chaffee County—In the Monarch district the Rogers Lead Company is operating the Garfield mine, Marshall Tunnel and the Great Monarch, and is shipping most of the tonnage coming from this camp. These ores are oxide and sulphide with gold, silver, copper, lead and zinc content. A great deal of new development work is being vigorously pushed by this company on its different holdings. The Paymaster and others are operating.

Summit County—The Breckenridge district has been active during the past year. The Wellington Mines Company has produced a fairly large and consistent tonnage of crude and concentrate ores from its properties. Both mills ran continuously throughout the year. The work done has proved new ore bodies for future operations. The Royal Tiger Mines Company is carrying on considerable experimental work at its mill; also pushing ahead a vigorous system of new development work underground. This company has also installed a plant of new machinery and equipment preparatory to sinking a shaft 6x17½, 1,200 feet deep. A number of buildings have also been erected at this property. The Aeo Mines Company, operating the Seven-Thirty, Warriors Mark and the Detroit, is doing extensive development work on the first two named, while the Detroit is blocking out and developing large bodies of milling ore for future tonnage. A new shaft is under contemplation on the Detroit property. Montezuma during 1926 has seen more activity than for a number of years past. A number of small mines are among the shippers. New capital is becoming interested here and mining men look to see the coming year a good one for this section of Summit County. The boat of the Blue River Dredge Company has been rebuilt after having been destroyed by fire last year, and is now working steadily north of Breckenridge with three eight-hour shifts.

Pitkin County—Some new strikes have been made at Aspen during the year which look very promising for that wonderful old mining camp. The continuous operation and shipping from such well known producers as the Cowenhoven, Lenado, Spar Consolidated, Hope, Newman, Great Western, Smuggler, Durant and others, are giving employment to a number of men. It can reasonably be expected that the year 1927 will show a much larger production from the mines at Aspen.

Park County—A few new enterprises have started in Park County within the year, one of them being the Mineral Farm Mines Company, Inc., and the Ophir Tunnel. The London, Russia, Sweet Home and a few other smaller operations are contributing toward the output of this county.

Saguache County—The most prominent mine in this county and in the Bonanza district is the Rawley. This mine is producing about 350 tons of crude ore daily, which is being put through its mill. This company has an average of 250 men on its payroll. The Cocomongo mine, with 15 to 20 men employed, is busily opening up and blocking out ores recently encountered. It is rumored that a custom mill may be started in Bonanza in the near future. This, with a number of smaller operations under way at this time, should create an added stimulus to mining in that section. The Orient mine is sending out about 200 tons daily of hematite iron to the C. F. & I. plant at Pueblo.

Mineral County—The largest producer of ores in the Creede district is the Withrow lease. A few other small leasers are contributing to the tonnage of ores being mined in Creede at the present time.

Rio Grande County—The old town of Sunnmitville, which has been practically forgotten for the past 20 years, has again opened the eyes of the mining people on account of a strike of high grade gold ore made on the Little Annie group. The first shipments from this new strike have netted the lucky owners fabulous returns in gold. A small amount of work has been carried on near the town of Jasper during the past year.

Garfield County—The Vanadium mine on East Rifle creek, probably the largest producer of its kind in the United States, is now producing and milling about 100 tons daily. It is said that there is a possibility that this tonnage may be increased during the coming year.

District No. 4, By M. L. Anderson, State Mine Inspector

Milling operations were started by the International Smelting Company at Rico, Nov. 1, and the mill is now treating 225 tons of lead-zinc sulphide ore per day. The selective flotation process is used in the mill. About 100 tons of concentrates are produced daily, 40 per cent of which is lead concentrate and 60 per cent

is zinc. The lead concentrate is shipped to the A. S. & R. plant at Durango and the zinc concentrate is shipped to a zinc smelter at Bartlesville, Okla. The mill is being supplied with ore from the mines operated by the Falcon Lead Company, the Rico Mining & Reduction Company, the Rico-Argentine Mining Company, and the Pelleyre Mining & Milling Company. The Falcon Lead Mining Company is furnishing 75 to 100 tons per day from the Yellow Jacket mine, the Rico Mining & Reduction Company is shipping ore to the mill from the Argentine group, and the Silver Swan mine; the Rico-Argentine is shipping from the Black Hawk mine, and the Pelleyre Mining & Milling Company is shipping from the Atlantic Cable and the Shamrock. The Union Carbonate mine is producing lead carbonate ore which is being shipped crude to the smelter at Durango. There are 250 to 300 men employed in the camp. Housing facilities have been inadequate to take care of all the men needed for work in the mines since the present activity began and many are living in tents. This situation will soon be relieved when a bunkhouse now under construction is completed. This building will be steam heated with rooms for 90 to 100 men. It is being built jointly by the International Smelting Company and the Falcon Lead Company.

Gunnison County—The Akron Mines Company at Whitepine is the principal producer in Gunnison County. The ore, lead-zinc sulphide, is shipped to the International Company's mill at Tooele, Utah. The Morning Star mine at Whitepine is doing exploration and development work.

The Goleonda Mines Company at Lake City has a force of 20 men on development work. The Burke Mining & Investment Company is employing a small force on construction work at the Ute and Ulay mines.

La Plata County—The May Day Development Company at Hesperus is doing development work at the May Day mine. The company is sinking a winze to open up ground below No. 2 level. The Gold King mine at La Plata is doing development work and a mill and tramway are under construction.

The Camp Bird mine at Ouray is operated by the Camp Bird Leasing Company. The company has a small crew working in the mine and is building a mill of 50 tons a day capacity which will be ready for operation in the spring. The Sutton mine at Ouray has a small crew on development work and is building a mill and tramway. The Bachelor Consolidated Mining Company is doing development work in the Syracuse tunnel level. The Singleton Leasing Company is operating the San Antonio mine near Red Mountain and is shipping some ore to the smelter.

San Juan County—The Sunnyside Mining & Milling Company is mining and milling about 25,000 tons of ore a month. Exploration and development operations are actively proceeding.

The differential flotation process is used in the mill. Three classes of concentrates are produced. The lead concentrate and middling product are shipped to the Durango smelter, and the zinc concentrate to the U. S. Smelting & Refining Company at Henrietta, Okla. The Mayflower and Shenandoah are operated by C. A. Chase of Silverton. A small force is employed on development work.

During the past year the Tomboy Gold Mines Company mined and milled 18,000 tons per month and the Smuggler Union is mining and milling 23,000 tons a month and doing extensive development work. Development results throughout the Smuggler-Union mine during recent months have been very encouraging. The milling process used is amalgamation, table concentration and flotation. Concentrate is shipped to Durango smelter. The Alta mine is operated by John M. Wagner. The ore is shipped to Durango. The Carbonero mine at Ophir produces about 50 tons of milling ore per day and 100 tons of crude ore is shipped to the smelter monthly. The Otto Mining Company is operating the San Bernardo mine and is milling 100 tons per day.

The foregoing is a partial resume of the metal mining activities throughout the state and has reference in the main only to the larger properties in active operation and does not include scores of smaller properties in the stages of development, some of which are shipping. Nor does it include a large number of large concerns that are making preparations to resume and commence new operations in 1927.

In addition to the output of the metal mines of Colorado as appears in Table 1, there was a heavy production of molybdenum, tungsten, manganese, iron and vanadium, while the clay and rock quarry industries are rapidly approaching vast proportions, giving employment to thousands of persons. See page 55 for operating quarries and clay pits.

HISTORICAL NOTE

The Bureau of Mines of the State of Colorado was established by an act of the Tenth General Assembly, approved March 30, 1895. This act repealed a previous act creating an "Inspector of Metalliferous Mines," which was passed in 1889. The Bureau of Mines law established the office of Commissioner of Mines, provided for in the State Constitution, and charged him, among other things, with the supervision of metal mine inspection and the enforcement of laws relating to safety and health in metal mines. Subsequently this was broadened to include "any ore mill, sampling works, smelter, metallurgical plant, rock quarry, clay pit, railroad tunnel, rock excavation or mine of whatsoever kind or character, except coal mines." The Commissioner of Mines was also charged, "as he has opportunity and means," to collect mineral specimens and exhibit the same, to collect books relating to mining and geology, to collect and preserve data regarding mining methods, mining costs, milling, metallurgy, geology, mineral deposits of all kinds, and so on. Aside from the purchase of the Elsner collection of minerals, very little "opportunity and means" has been granted to the Commissioners for anything except inspection work. The present activities of the Bureau of Mines are treated elsewhere in this report.

COMMISSIONERS OF MINES

Harry A. Lee.....	May 11, 1895-May 10, 1903
E. L. White.....	May 10, 1903-May 10, 1907
T. J. Dalzell.....	May 10, 1907-May 10, 1911
T. R. Henahen.....	May 10, 1911-May 10, 1915
Fred Carroll.....	May 10, 1915-June 1, 1919
Horace F. Lunt.....	June 1, 1919-June 1, 1923
John T. Joyce.....	June 1, 1923

PUBLICATIONS OF THE BUREAU OF MINES

BULLETINS

Bulletin No. 1, Recommendations for Safety Appliances in Mining, Harry A. Lee, Commissioner of Mines, 1896.

Bulletin No. 2, Precious Metal Production for the year 1898, Harry A. Lee, Commissioner of Mines, 1899.

Bulletin No. 3, Mining Laws Relative to Bureau of Mines, Precious Metal Production, Harry A. Lee, Commissioner of Mines, 1899.

Bulletin No. 4, Precious Metal Production, Harry A. Lee, Commissioner of Mines, 1901.

Bulletin No. 5, Precious Metal Production, Harry A. Lee, Commissioner of Mines, 1902.

Bulletin No. 6, Regulations Relative to the Construction, Equipment and Operation of Metalliferous Mines, Mills and Metallurgical Plants, Recommendations and Mineral Production for 1905, E. L. White, Commissioner of Mines, 1906.

Bulletin No. 7, Federal and State Laws Relating to Mining, Fred Carroll, Commissioner of Mines, 1916.

Supplement to Bulletin 7, Mining Laws Enacted by the Twenty-first General Assembly, Fred Carroll, Commissioner of Mines, 1917.

Supplement No. 2 to Bulletin No. 7, Amendments to the Mining Laws Enacted by the Twenty-second General Assembly, Horace F. Lunt, Commissioner of Mines, 1919.

Supplement No. 3 to Bulletin No. 7, Amendments to Laws Relating to Mining Enacted by the Twenty-third General Assembly, Horace F. Lunt, Commissioner of Mines, 1921.

Supplement No. 4 to Bulletin 7, Amendments to Laws Relating to Mining Enacted by the Twenty-fourth General Assembly, Horace F. Lunt, Commissioner of Mines, 1923.

Bulletin No. 8, The Oil Shales of Northwestern Colorado, Horace F. Lunt, Commissioner of Mines, 1919.

Bulletin No. 9, Mine Safety Standards, Horace F. Lunt, Commissioner of Mines, 1920.

REPORTS

Report of Bureau of Mines, Colorado, from its establishment in May, 1895, to November 30, 1896, Harry A. Lee, Commissioner of Mines, 1896.

Report for the Year 1897, Harry A. Lee, Commissioner of Mines, 1898.

Report for the Year 1898, Harry A. Lee, Commissioner of Mines, 1899.

Biennial Report for the Years 1899-1900, Harry A. Lee, Commissioner of Mines, 1900.

Biennial Report for the Years 1901-1902, Harry A. Lee, Commissioner of Mines, 1903.

Biennial Report for the Years 1903-1904, E. L. White, Commissioner of Mines, 1905.

Biennial Report for the Years 1905-1906, E. L. White, Commissioner of Mines, 1907.

Biennial Report for the Years 1907-1908, T. J. Dalzell, Commissioner of Mines, 1909.

Biennial Report for the Years 1909-1910, T. J. Dalzell, Commissioner of Mines, 1911.

Biennial Report for the Years 1911-1912, T. R. Henahen, Commissioner of Mines, 1913.

Biennial Report for the Years 1913-1914, T. R. Henahen, Commissioner of Mines, 1914.

Biennial Report for the Years 1915-1916, Fred Carroll, Commissioner of Mines, 1916.

Biennial Report for the Years 1917-1918, Fred Carroll, Commissioner of Mines, 1919.

Annual Report for the Year 1919, Horace F. Lunt, Commissioner of Mines, 1920.

Annual Report for the Year 1920, Horace F. Lunt, Commissioner of Mines, 1921.

Annual Report for the Year 1921, Horace F. Lunt, Commissioner of Mines, 1922.

Annual Report for the Year 1922, Horace F. Lunt, Commissioner of Mines, 1923.

Annual Report for the Year 1923, John T. Joyce, Commissioner of Mines, 1924.

Annual Report for the Year 1924, John T. Joyce, Commissioner of Mines, 1925.

At the time this report goes to press, there are available for distribution copies of the Annual Reports for 1919, 1921 and 1923, Bulletins 7, 8 and 9. The price of Bulletin 7, with supplements, is 50 cents, all other available publications are free. The supply of publications not mentioned above is exhausted, but copies may be found in many of the public, state and college libraries throughout the country.

Note:—The Colorado Geological Survey, Boulder, Colorado, has published a number of geological reports and maps, a list of which may be obtained from R. D. George, State Geologist, Boulder, Colorado.

TABLE

DUCTION OF THE PRINCIPAL METALS IN COLORADO IN 1925 AND 1926

Figures for 1926 are preliminary and subject to correction.

Technical planning presentation

PRODUCTION

Gold, Silver, Copper, Lead and Zinc.

The production of gold, silver, copper, lead and zinc for 1925 and 1926 is shown in Table I. The figures for 1925 are final; those for 1926 are preliminary and subject to correction.

The gold dredges in Summit and Lake counties, the production of which is included in that of the lode mines in Table I, recovered bullion containing about 2,304 ounces of gold and 578 ounces of silver.

Miscellaneous.

Plastic clay, fire clay, gypsum, lime, sandstone, fluorspar, feldspar and other non-metallic minerals have been produced to meet local demands. The marble quarries have been quite active.

The Wolf Tongue Mining Company, Tungsten Production Company, Inc., and others produced more than 235 tons of ferberite concentrates last year.

The vanadium plant at Rifle has operated steadily, making an intermediary vanadium product. The Climax Molybdenum Company has been very active all the year.

Acknowledgment.

Thanks are due to Scott Turner, Director, and C. W. Henderson, Engineer, the United States Bureau of Mines, for the production statistics regarding the common metals.

FATAL ACCIDENTS, 1926

Underground.

January 2, Pete Giacomelli, Italian, track repairer, age 21, and Dan Metroff, Bulgarian, laborer, age 33, both employed at the East Portal of the Moffat Tunnel, while engaged in repairing the track in the water tunnel between crossecuts Nos. 8 and 9, were overcome by gas from a round of holes blasted in the main railroad tunnel, from the effects of which they died in a few hours. Had they obeyed instructions and walked back to crosscut No. 7, their deaths might have been avoided.

February 24, Forest N. Snow, American, age 29, mucker, employed at East Portal, Moffat Tunnel, lost his life by asphyxiation in the main railroad tunnel by gases from a round of holes blasted in the main heading. Contrary to established rules, and despite the warning of his partner, deceased deliberately walked into the smoke which filled the tunnel following the heavy blasting. It is quite evident the accident was due to a violation of the rules in vogue at the tunnel in such cases and carelessness on the part of the deceased.

March 19, Charles Deeker, American, age 22, mucker, employed at the Moffat Tunnel, was fatally injured while walking through the main tunnel with other men, when a piece of rock fell from the roof, breaking his back and one leg. He died the following day. The accident is classed as unavoidable.

May 11, George Richards, American, age 53, timberman, employed in a mine near Telluride, while engaged with other men hauling a heavy stull up the manway into a stope, lost his footing and fell with the stull down the manway a distance of 85 feet. He was instantly killed. The accident is classed as unavoidable.

June 8, Hugh Brady, American, age 62, miner, was fatally injured by a fall of ground which broke the platform on which he was standing in a mine near Leadville. He died from the effects of his injuries June 24th. The accident is classed as unavoidable.

July 20, Ralph McClellan, American, age 33, miner, while loading a car in the West Portal, Moffat Tunnel, was struck by a rock which fell from the roof of the tunnel. He died two days later. Classed as unavoidable.

July 30, John Adams, American, age 50, shift boss, and Hartzel Thompson, American, age not given, mucker, and John Proske, Austrian, age 48, laborer, and Pat Gassoway, American, age 43, laborer, and W. E. Pierson, American, age 39, laborer, and Henry Ferguson, American, age 48, laborer, were all killed while engaged in timbering the railroad section of the Moffat

Tunnel, West Portal, at a point about 12,000 feet east of the portal. They had just about completed timbering up that section of the tunnel when the cave occurred. A rock about 20 feet long, and perhaps 20 feet wide, dropped out of place, falling on the timbers which were perhaps only about 10 or 12 inches above the timbers that were being put in, and it crushed the timbers, carrying the crew underneath a mass of rock without any warning. Thompson lived $11\frac{1}{4}$ hours after he was crushed; the other men were killed instantly. The accident was clearly unavoidable, and such was the verdict of the coroner's jury.

August 24, James Martin Flynn, American, age 47, miner, and James Albert Van Ausdal, American, age 50, miner, both employed at a mine near Montezuma, while spitting a round of eight holes, some of them double fused on account of water dripping from the roof of a drift, evidently miscalculated the time and waited too long, as the holes began to explode about the time they started to leave. They were both badly crushed and doubtless were instantly killed. It is quite clear that carelessness was the cause of the accident.

September 24, J. P. McKenna, American, age 54, miner, employed in a mine in Boulder County, was fatally injured by falling down an upraise some forty feet. Deceased and his partner were timbering the manway, when the plank upon which he was standing in some unknown way became loose, causing him to fall as stated. He died October 7th.

October 14, George Shores, American, age 21, brakeman, was killed at the East Portal of the Moffat Tunnel by falling from an electric motor. Deceased, with the motorman and another workman, was riding on the motor, when he suddenly stood up on the top of the motor and then fell off, striking his head on the rail, fracturing his skull. He died in a few minutes. Classed unavoidable.

November 1, George Fortune, American, age 29, chuck tender, employed at the West Portal, Moffat Tunnel, was killed by a fall of rock. Deceased, who was a member of the drill crew, had about completed the drilling of a round of holes, when a slab of rock dropped from the breast of the tunnel and crushed Mr. Fortune. He died in a few hours. As there was no reason to suspect that the ground was unsafe, the accident was classed as unavoidable.

November 10, Gerald Dean Sandlin, American, age 20, machineman, died from injuries received in a winze in a mine in Saguache County. It seems that deceased and his partner, D. A. Duncan, had spit a round of five holes in the bottom of the winze and signalled the hoistman to hoist them from the winze. When they had been hoisted about five feet the air gave out. They shouted to throw down the air hose, which was done, and Duncan climbed out hand over hand and then threw a rope down to

Sandlin. He had hoisted him about six feet when the first hole went off, causing him to fall back on the remaining four holes. He was dead when reached. It seems evident that carelessness on the part of the operator of the air plant was the cause of the accident, which might also have been prevented had the winze been supplied with chain ladders, as requested.

November 13, George C. Mindenhall, American, age 36, miner, employed in a mine near Leadville, was killed by picking into a missed hole. Deceased had drilled and blasted a round of holes in the breast of the drift in which he was working and evidently miscounted the blasts. Thus it appears that the accident was the result of his own carelessness.

November 20, John Billich, Jugo-Slovak, age 32, miner, was killed in a mine near Leadville by falling down a raise. Deceased was crossing over the top of the raise on some damp cribsticks when he lost his footing and fell 50 feet. He died two days later. Classed as unavoidable.

December 29, Abel Martinez, American, age 29, contractor and miner, was killed in a mine in San Miguel County by a fall of rock. He had left his work to go to lunch and as he walked toward the manway a heavy rock, evidently loosened by water, fell from the back, pinning him underneath. He died the following day. As there was no visible evidence that the ground was unsafe, the accident was classed as unavoidable.

Shaft.

May 15, Jose A. Valquez, American, age 22, was killed by falling 200 feet down an old abandoned shaft which was partially covered with wood and snow near Leadville. Had this old shaft been properly covered or fenced as required by law, this accident would not have happened.

August 9, Dominick Casitto, Italian, age 49, mine foreman at a mine near Ophir, while engaged in repairing a defect in the skip compartment of the mine shaft, was hit by the descending skip, causing him to fall down the shaft a distance of forty feet, killing him instantly. Evidently the accident was the result of carelessness, as the skip should have been stopped while men were engaged in repairing.

September 8, W. L. Ramey, American, age 21, skip tender, employed at a mine near Bonanza, was instantly killed by a rock falling down the shaft, striking him on the head. He and his partner had gone down in the cage and stopped 60 feet above the 12th level to make an investigation of an ore pocket, when the rock fell. Classed as unavoidable.

September 13, Andy Carlson, Swede, age 36, mine foreman, on a mine near Georgetown, while riding up a winze on a bucket with the superintendent, suddenly collapsed in a faint and fell about

fourteen feet to the bottom of the winze. He died shortly after being removed to the portal of the tunnel. Classed as unavoidable.

Surface.

May 10, Alfred Lucy, American, age 45, crusher feeder, while tending a crusher at a crushing plant at Independence, was struck by a large lump of frozen dirt which rolled down the drag track from the dump. He died on the third day. The inspector reports that had a better lighting system been employed and the deceased more careful the result might have been avoided.

June 23, Evan T. Holman, American, age 25, repair man, was fatally injured near a mine at Montezuma by an electric shock which caused him to fall from a power line pole while repairing a guy wire. He died in a few hours. According to report of the coroner, the accident was the result of carelessness.

September 1, John W. Hamilton, American, age 49, carpenter and millwright, while working a jack to move a heavy crusher, lost his balance as the jack slipped and fell some thirty feet, landing on his head on a pile of rock. He was instantly killed. The accident was classed as unavoidable.

Smelter.

August 1, Carl F. Berg, American, age 18, steam shovel helper at smelting plant at Leadville, while engaged in operating the steam shovel handling coal, was caught and crushed between the shovel frame and the shovel truck. He died August 6th, evidently as the result of carelessness on his part.

October 1, O. R. Pyles, American, age 33, oiler at a smelting plant at Florence, was killed by his clothes being caught on a revolving shaft, winding him and striking his body against the elevator shaft, breaking his neck, causing instant death. There is a standing order for no one to go near the shaft when the machinery is running. There were no witnesses to the accident.

Quarries, etc.

March 17, Jack Eggers, American, age 46, laborer, employed by the State Highway Department and the County of Dolores, while engaged in road construction near Rico, was struck on the head by a rock which rolled down from the hillside. He died in a few moments. The accident was unforeseen and is classed as unavoidable.

July 11, Albert (or Albino) Duran, American, age 26, laborer, while shoveling coal in the north side storage bin at Concrete, started a slide of the coal and jumping back he slipped and pushed the cover off the screw conveyor, which cut off his foot

and crushed his leg below the knee. He died the following day. According to the inspector's report, a guard would have kept the cover from slipping and the accident could have been prevented.

December 27, John Korpilla, Finlander, age 50, steam shovel pitman, employed in pit work on a railroad near Glenwood Springs, when a cave of the bank caused by a frost break caught and crushed him against a heavy jack-screw, killing him instantly. Classed as unavoidable.

TABLE II

100
DAYS OF EMPLOYMENT IN AND ABOUT MINES, MILLS AND SMELTERS, INCLUDING RAILROAD TUNNELS, AND NUMBER OF MEN KILLED AND INJURED PER 10,000 DAYS OF EMPLOYMENT DURING THE YEARS 1925 AND 1926.

TABLE III

CLASSIFICATION ACCORDING TO CAUSE OF ALL ACCIDENTS IN THE METAL MINING AND QUARRYING INDUSTRY IN THE STATE OF COLORADO DURING THE YEARS 1925 AND 1926.

CLASSIFICATION ACCORDING TO CAUSE OF ALL ACCIDENTS IN THE METAL MINING AND QUARRYING INDUSTRY IN THE STATE OF COLORADO DURING THE YEARS 1925 AND 1926—Continued

CLASSIFICATION ACCORDING TO CAUSE OF ALL ACCIDENTS IN THE METAL MINING AND QUARRYING INDUSTRY IN THE STATE OF COLORADO DURING THE YEARS 1925 AND 1926—Concluded

TABLE IV

CLASSIFICATION ACCORDING TO CAUSE AND OCCUPATION OF THE FATAL ACCIDENTS THAT OCCURRED IN THE METAL MINING AND QUARRYING INDUSTRY OF COLORADO IN THE YEARS 1925 AND 1926—Continued

SMELTERS

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PLACES AND BORDERS

OPERATING MINES IN BOULDER COUNTY, 1926

Name of Mine	Location	Operator	P. O. Address	Character of Product
Acme Group (a)	Boulder	Acme Gold Mining Co.	1833 19th St., Boulder	Gold, Silver (c)
Ala Makée (a)	Gold Hill	Nichols and Wilson	1014 Portland St., Boulder	Gold, Silver (c)
Alice (a)	Jamestown	Fluorite Mining Co.	Jamestown	Gold, Silver, Lead (c)
Black King	Nederland	Tungsten Production Co.	940 10th St., Boulder	Tungsten
Blue Jay (a)	Jamestown	Jesse Vickery and Co.	Jamestown	Fluorspar (c)
Buckeye (a)	Sugar Loaf	Walter N. Ramsey	Boulder	(c)
Caribou	Caribou	American Mines and Smelting Co.	940 10th St., Boulder	Gold, Silver
Castle Group (a)	Boulder	Matt Herchen	Star Route, Jamestown	Gold, Silver (c)
Clark Mill (m)	Vasco	Tungsten Production Co.	940 10th St., Boulder	Tungsten
Cold Spring (m)	Boulder	Wolf Tongue Mining Co.	Boulder	Tungsten
Dorothy Group (m)	Boulder	Teal and Barr	Box 463, Boulder	Gold, Silver (c)
East Side and Lamar (a)	Eldora	Sullivan Brothers	Eldora	Gold
Emancipation	Salina	Gold Hill Mining and Development Co.	Gold Hill	Gold
Eureka Group	Vasco	Tungsten Production Company, Inc.	940 10th St., Boulder	Tungsten
Evans Group (a)	Summerville	Evans Mining and Reduction Co.	533 Cooper Bldg., Denver	Gold, Silver, Lead (c)
Fairview (m)	Cardinal	Fairview Mining Corporation	825 Foster Bldg., Denver	Gold, Silver, Lead, Copper
Fourth of July (a)	Ballarat	Wm. Brugger and Co.	Jamestown	Gold, Silver (c)
Grace Lode and Prospect (a)	Jamestown	Alfred Jones and Assoc.	Jamestown	Gold, Silver (c)
Grand Republic	Crisman	New Era Mining Co.	940 10th St., Boulder	Gold, Silver, Copper
Grant	Ballarat	Warren and Burger	Jamestown	Gold, Silver
Gray Copper Group	Wallstreet	William Mitchell	621 Pine St., Boulder	Gold, Silver
Great Britain (a)	Wallstreet	Evans Mining and Reduction Co.	533 Cooper Bldg., Denver	Gold, Silver (c)
Hidden Thought	J. W. Kirkbride and Co.	Gold Hill	2341 18th St., Boulder	Gold, Silver, Copper
Intercean	Glendale	C. D. Scott and Co.	Monticello Hotel, Boulder	Gold, Silver
Jack and Summit (a)	Sunshine	United Mines Co.	11, Citizens Nat. Bank, Boulder	Gold, Silver
Layman	Nederland	Wolf Tongue Mining Co.	Boulder	Tungsten
Little Jule	Magnolia	W. W. Gunter	1644 Pine St., Boulder	Gold, Silver (c)
Moore Group (a)	Crisman	Little Jule Mining Co.	2087 South High St., Denver	Gold, Silver
Mountain Lion	Wallstreet	Moore Mining, Milling and Dev. Co.	1823 22nd St., Boulder	Gold, Silver, Lead (c)
New Rival	Magnolia	J. L. McDonald	Magnolia	Gold
Ophir (a)	Jamestown	Fred Dopp	Jamestown	Gold, Silver
Platteville	Magnolia	White Brothers	1622 18th St., Boulder	Gold, Silver (c)
Pleasant View (a)	Eldora	Samuel H. Dierks and Co.	Box 542, Denver	Gold, Silver
Potosi (m)	Ward	P. A. Larson	Ward	Gold, Silver, Copper, per (c)
Potosi-Caribou	Caribou	Potosi-Caribou Mining Co.	160 Broadway, New York	Gold, Silver, Lead, Copper
Prospect	Wallstreet	New Era Mining Co.	940 10th St., Boulder	Gold, Silver, Copper
Red Sign	Boulder	H. E. Vickery, Lessee	Boulder	Gold, Silver
Rip Van Dam	Jamestown	John A. Jenson & Co.	Box 420, Boulder	Gold, Silver
Roseberry (a)	Eldora	Roseberry M. and M. Co.	226 So. Williams St., Denver	Gold, Silver
St. Louis (a)	Glendale	M. W. Robinson Co.	Jamestown	Gold, Silver

Smuggler (a)	Ballarat	Smuggler Gold Mining Co.	3338 W. 34th Ave., Denver.....	(c)
..... (a)	Ward	J. L. Tarbox	Clayton, Illinois	Gold, Silver, Copper (c)
Tungsten Valley No. 5	Nederland	Tungsten Production Co., Inc.	940 10th St., Boulder	Boulder, per (c)
Vasco Nos. 1, 4, 6, 7, 10 (m)	Vasco	Tungsten Production Co., Inc.	940 10th St., Boulder	Tungsten
Wano (m)	Jamestown	Colorado Cons. M. and M. Co.	928 Equitable Bldg., Denver	Gold
Wood Mountain (m)	Wallstreet	Wood Mountain Mines Co.	Wallstreet St	Gold, Silver
Yellow Jacket (a)	Sunset	C. H. Craig	1107 10th St., Boulder	Gold, Silver, Copper (c)

OPERATING MINES IN CHAFFEE COUNTY, 1926

Name of Mine	Location	Operator	P. O. Address	Character of Product
Ben Bolts Paymaster (a)	Monarch	A. N. Rice	100 Milk St., Boston, Mass.	Silver (c)
Garfield	Garfield	Rogers Lead Co.	Salida	Gold, Silver, Lead, Zinc
Great Monarch and Marshall Tunnel	Monarch	Rogers Lead Co.	Salida	Gold, Silver Lead, Zinc

OPERATING MINES IN CLEAR CREEK COUNTY, 1926

Name of Mine	Location	Operator	P. O. Address	Character of Product
Aetna	Georgetown	Capital Mining and Milling Co.	50 Congress St., Boston, Mass.	Gold, Silver, Lead, Zinc
Alabama (a)	Dumont	Lee Mining and Milling Co.	917 15th St., Denver	Gold, Silver, Lead
Andy Lowe (a)	Dumont	Andy Lowe Gold Mining Co.	Idaho Springs	Gold, Silver, Lead
Anna B. (a)	Idaho Springs	Dr. M. W. Reed & Assoc.	401 Republic Bldg., Denver	Gold, Silver (c)
Argo Tunnel	Idaho Springs	Burroughs Pool Mining Co.	Idaho Springs	Gold, Silver (c)
Back Bone (a)	Silver Plume	James Mitchell	Silver Plume	Gold, Silver, Lead, Zinc (c)
Bald Eagle	Idaho Springs	North American Mining Co.	405 Interstate Trust Bldg., Denver	Gold, Silver, Lead, Zinc (c)
Barber-Elliott	Idaho Springs	Terrell Leasing Co.	Idaho Springs	Copper
Belgian Hare (a)	Idaho Springs	A. L. Kemp and M. T. Bacon	Idaho Springs	Gold, Silver, Lead
Bellevue Hudson	Idaho Springs	Dr. M. W. Reed & Assoc.	401 Republic Bldg., Denver	Gold, Silver, Lead
Black Eagle (a)	Idaho Springs	Bellevue Hudson Syndicate	311 U. S. National Bank Bldg., Denver	Gold, Silver
Broadwinner (a)	Idaho Springs	Tonica Mining Co.	Idaho Springs	Gold, Silver (c)
Capitol Tunnel	Georgetown	Capitol Mining and Milling Co.	W. S. Humphrey & Co.	Gold, Silver, Lead, Zinc (c)

(a) Operated for part of the year only. (c) No production in 1926. (m) Mill operated in connection with mine.

OPERATING MINES IN CLEAR CREEK COUNTY, 1926—Continued

Name of Mine	Location	Operator	P. O. Address	Character of Product
Challenge, Columbine and Molly, Bawn (a)	Empire	Kenneth Sharp	Empire	Gold, Silver, Lead (c)
Crazy Girl	Freeland	Silver Leaf Metals, Inc.	614 Ideal Bldg., Denver	Gold, Silver, Lead
Cyclone	Silver Plume	Joseph Cottingham	Silver Plume	Silver, Lead, Zinc
De Caprivi	Lawson	De Caprivi Mining Co.	435 N. Michigan Ave., Tribune Tower, Chicago, Ill.	Gold, Silver, Lead, Zinc
Denver Tunnel and Honest John Tunnel	Empire	Metals Tunnel Co.	2555 W. 37th Ave., Denver	Gold, Silver, Lead (c)
Dives-Seven Thirty (m)	Silver Plume	East Butte Copper Mining Co.	1016 First National Bank Bldg., Denver	Silver, Lead
Duncan	Silver Plume	Southern Mining and Mineral Corp.	Silver Plume	Silver, Lead
Edgar (a)	Idaho Springs	Riley and Finn	Idaho Springs	Gold, Silver, Lead (c)
Florence	Idaho Springs	A. J. Hayes & Assoc.	550 Metropolitan Bldg., Denver	Gold, Silver, Lead
Free Gold (a)	Idaho Springs	Pueblo Mining Co.	Idaho Springs	Gold, Silver, Lead, Copper
Freeland Group (m)	(a)	United Freeland Dev. and Tunnel Co.	Dumont	Gold, Silver, Lead, Copper, Zinc (c)
German (a)	Idaho Springs	Christian Stangler	Idaho Springs	Gold, Silver, Lead
Georgetown Tunnel (a)	Georgetown	Georgetown Tunnel Trans. Co.	Georgetown	Gold, Silver, Lead, Copper, Zinc (c)
Gilt Edge	Alice	Denver Mines Dev. Co.	502 Denham Bldg., Denver	Gold, Silver, Lead
Gold Belt Tunnel	Silver Plume	Elmwood Mining Co.	Silver Plume	Copper, Zinc, Silver, Lead
Gold Dirt (a)	Empire	Gold Dirt Mining Co.	902 Security Bldg., Denver	Gold, Silver, Lead (c)
Gold Valley Tunnel	Empire	Columbian Mt. Mfg. & Sub-Ldg. Co.	319 Broadway, Denver	Copper, Zinc
Grand-Clear Creek (a)	Empire	Wahlstrom, Willey and Anderson	Empire	Gold, Silver, Lead (c)
Hiawatha Tunnel	Dumont	Albro Mining Syndicate	Dumont	Gold, Silver, Lead, Zinc (c)
Hyland (a)	Idaho Springs	Spanish Bar Mining Co.	138 16th St., Denver	Gold, Silver, Lead, Copper (c)
Iron King (a)	Empire	Edward Carlson	Andrews, Oregon	Gold, Silver, Lead, Zinc (c)
Jessica	Idaho Springs	Jessica Mines	Idaho Springs	Gold, Silver, Lead
Jo Reynolds	Lawson	Jo Reynolds Mfg. and Milling Co.	Idaho Springs	Gold, Silver, Lead, Copper, Zinc
Josephine (a)	Georgetown	Kelso National Mining Co.	Georgetown	Gold, Silver, Lead, Zinc
K. K. K. (a)	Idaho Springs	Baker and Sons	Idaho Springs	Gold, Silver, Copper (c)

Kelso Group (a)	Silver Plume	Kelso National Mining Co.	Georgetown	Gold, Silver, Lead, Zinc
Lake (a)	Idaho Springs	Brighton Leasing Co.	Idaho Springs	Gold, Silver, Copper (c)
Legal Tender No. 1 (a)	Dumont	Andy Lowe Gold Mining Co.	Idaho Springs	Gold, Silver, Lead (c)
Lily Lincoln	Idaho Springs	G. L. Brown	Idaho Springs	Gold, Silver, Lead
Little Emma	Idaho Springs	Joseph Pellar	Idaho Springs	Gold, Silver, Lead
Lombard	Idaho Springs	Dan Ulrich	Idaho Springs	Gold, Silver, Lead
Lord Byron (a)	Idaho Springs	Fall River Mining Co.	502 Denham Bldg., Denver	Gold, Silver, Lead, Copper (c)
Mammoth, Silver Leaf (m)	Silver Plume	Jack Pot Leasing Co.	Box 574, Denver	Gold, Silver, Lead, Copper
Mary C. (a)	Dumont	Silver Plume Silver Mining Co.	4574 E. 6th Ave., Denver	Gold, Silver, Lead, Zinc
Mattie Group	Idaho Springs	T. F. Campbell & Assoc.	1271 Santa Fe Drive, Denver	Gold, Silver, Copper (c)
Maud S.	Empire	Mattie Cons. Mines Co.	Idaho Springs	Gold, Silver, Lead
May Day	Idaho Springs	Douglas Mountain Mining Co.	Box 366, Idaho Springs	Gold, Silver, Lead, Copper, Zinc
Mineral Chief	Georgetown	Silver Leaf Metals, Inc.	614 Ideal Bldg., Denver	Gold, Silver, Copper
Neglected (a)	Idaho Springs	Wohlcke and McLellan	502 Denham Bldg., Denver	Gold, Silver, Lead, Copper, Zinc
Nimrod (a)	Idaho Springs	Charles Olson	Idaho Springs	Gold, Silver, Lead, Copper, Zinc (c)
O. S. Storrs (a)	Empire	Cassells	910 26th St., Denver	Gold, Silver, Lead, Copper, Zinc (c)
P. T. (m)	Idaho Springs	John A. Heim & Assoc.	Empire	Gold, Silver, Lead (c)
Platts, Big Chance	Lawson	Burkhardt Pkg. and Prov. Co.	1515 Blake St., Denver	Gold, Silver, Lead
Poorman	Freeland	Platts, Big Chance Co.	Lawson	Gold, Silver, Lead, Copper, Zinc
Queen Elizabeth	Idaho Springs	R. W. McKenzie	Idaho Springs	Gold, Silver, Lead
Quite (a)	Idaho Springs	Frank J. Hayes Mining Co.	Idaho Springs	Gold, Silver, Lead
Red Elephant (m)	Lawson	S. L. Johnson & Co.	Box 432, Idaho Springs	Gold, Silver, Lead
Right Tunnel	Empire	Red Elephant Mining Co.	Lawson	Gold, Silver, Lead
St. George	Georgetown	Berthoud Pass Mining & Cons. Co.	624 Central Savings Bank Bldg., Denver	Gold, Silver, Lead, Copper (c)
Sidney Tunnel (a)	Georgetown	St. George Mining Co.	30 Broad St., New York City	Gold, Silver, Lead, Zinc (c)
Silver Mountain	Empire	M. Sidney, Trustee	Georgetown	Gold, Silver, Lead
Silver Queen (a)	Empire	West Fork Mining Co.	Empire	Gold, Silver, Lead
Star Group (a)	Cassells	J. F. Kimberly and J. L. Henritz	Cassells	Gold, Silver, Lead (c)
	Silver Plume	Southern Mining and Mineral Corp.	Meridian, Miss.	Gold, Silver, Lead, Zinc (c)

(a) Operated for part of the year only.

(c) No production in 1926.

(m) Mill operated in connection with mine.

OPERATING MINES IN CLEAR CREEK COUNTY, 1926—Continued

Name of Mine	Location	Operator	Character of Product
Stevens	Silver Plume	Silver Plume Silver Mining Co.	Gold, Silver, Lead, Copper, Zinc
Summit Group (a)	Empire	Beaman & Collyer	Gold (c)
Treasure Vault (a)	Idaho Springs	Consolidated Metals, Inc.	Gold, Silver (c)
Virginia City	Empire	Virginia City Mines, Inc.	Gold, Silver, Lead, Zinc (c)
West Gold (a)	Idaho Springs	James Bjorn and Assoc.	Gold
West Gold	Idaho Springs	West Gold Mining Co.	502 Denham Bldg., Denver
Wilbur	Idaho Springs	Thomas Sharp & Co.	Montezuma,
Wilson	Empire	A. C. Wilson	221 West 6th St., Pueblo
Wyoming Valley (a)	Idaho Springs	Silver Cycle Mining Co.	408 Patterson Bldg., Denver
Yukon Girl	Idaho Springs	James Meldrum	Gold, Silver
		{ George Ford	Box 402, Idaho Springs
		{ Idaho Springs	{ Gold, Silver

OPERATING MINES IN CUSTER COUNTY, 1926

Name of Mine	Location	Operator	Character of Product
Cloverdale (a)	Hillside	Cloverdale Mines Co.	Hillside
New Hope (a)	Westcliffe	Phoenix Lead Silver Co.	423 Main St., Canon City
Passiflora (Vidler Shaft)	Westcliffe	Westcliffe Development Trust	Silver, Lead (c)
Rayida (a)	Westcliffe	Rayida Mines Co.	Westcliffe
Terrible	Westcliffe	R. D. Webb	Box 186, Westcliffe
Verda	Westcliffe	Ilse Mining and Mfg. Co.	(c)
		{ Verde Mining and Mfg. Co.	Minden, Lat.
		{	Lead
		{	27 Small Ave., Pueblo

OPERATING MINES IN DOLORES COUNTY, 1926

Name of Mine	Location	Operator	Character of Product
Argentine	Rico	Rico Mining and Reduction Co.	812 International Life Bldg., St. Louis, Mo.
Atlantic Cable	Rico	Pelleyre M. and M. Co.	818 Kearns Bldg., Salt Lake City, Utah
Badger (a)	Rico	Badger Mining Co.	725 First National Bank Bldg., Denver

Black Hawk.....	Rico.....	Rico-Argentine Mining Co.....	538 Atlas Block, Salt Lake City, Utah.....
Lillie D.....	Rico.....	Rico Mining and Reduction Co.....	812 International Life Bldg., St. Louis, Mo.....
Mountain Spring.....	Rico.....	Rico Mining and Reduction Co.....	812 International Life Bldg., St. Louis, Mo.....
Pigeon.....	Rico.....	Rico Mining and Reduction Co.....	812 International Life Bldg., St. Louis, Mo.....
Shamrock.....	Rico.....	Pelleyre M. and M. Co.....	818 Kearns Bldg., Salt Lake City, Utah.....
Silver Swan.....	Rico.....	Rico Mining and Reduction Co.....	812 International Life Bldg., St. Louis Mo.....
Smuggler-Almont (m).....	Coke Ovens.....	Mount Pleasant Mining Co.....	2311 Northwestern Ave., Racine, Wisconsin.....
Union Carbonate.....	Rico.....	Union Carbonate Mine.....	307 Boston Bldg., Denver.....
Yellow Jacket.....	Rico.....	Falcon Lead Mining Co.....	Rico.....

OPERATING MINES IN EAGLE COUNTY, 1926

Name of Mine	Location	Operator	P. O. Address	Character of Product
Eagle.....	Gilmian.....	Empire Zinc Co.	160 Front St., New York City	Silver, Lead, Zinc

OPERATING MINES IN FREMONT COUNTY, 1926
P. O. Address
Operator 1608 Broadway,
David Fleaton
ax. 1111

OPERATING MINES IN GARFIELD COUNTY, 1926

Cotopaxi (m) Cotopaxi (m) David Fleaton 1608 Broadway, Denver Gold, Silver, Lead, Zinc, Copper

OPERATING MINES IN GARFIELD COUNTY, 1926

Name of Mine	Location	Operator	P. O. Address	Character of Product
Eastern Star (a.)	Rifle	Rousseau and Lacy	Rifle	Silver, Lead (c)
Rifle (m.)	Rifle	United States Vanadium Co.	Rifle	Vanadium

(a) Operated for part of the year only.
(b) No production in 1926.
(c) Mill operated in connection with mine.

OPERATING MINES IN GILPIN COUNTY, 1926

Name of Mine	Location	Operator	P. O. Address	Character of Product
Aetna.....	Central City.....	Walter McLeod	Central City.....	Gold, Silver, Lead, Zinc
Alps (a).....	Russell Gulch.....	Burroughs Pool Mining Co.....	Idaho Springs.....	Gold, Silver, Lead, Copper, Zinc (c)
Annie.....	Blackhawk.....	Annie Mining Co.....	Idaho Springs.....	Gold, Silver, Lead, Copper, Zinc
Arizona.....	Russell Gulch.....	Arizona Morning Star Mines.....	4844 W. 36th Ave., Denver.....	Gold, Silver, Lead, Copper, Zinc
Atlantic.....	Hughesville.....	Hawkeye Mining Co.....	Central City.....	Gold, Silver, Lead
Banta-Hill.....	Russell Gulch.....	R. H. Hastie.....	2090 Birch St., Denver.....	Gold, Silver, Lead
Barnes Group (a).....	Central City.....	Gibson Barnes Mining Co.....	Sunrise, Wyoming.....	Gold, Silver, Lead, Copper (c)
Becky Sharp.....	Russell Gulch.....	North American Mining Co.....	405 Interstate Trust Bldg., Denver.....	Gold, Silver, Lead, Copper
Big Six (a).....	Russell Gulch.....	John Bost & Co.	Russell Gulch.....	Gold, Silver, Lead, Copper, Zinc (c)
Black Jack.....	Blackhawk.....	Eugene Perley	Blackhawk.....	Gold, Silver, Lead
Bollen Mill.....	Blackhawk.....	Kate Bollen	1560 Fillmore St., Denver.....	Gold, Silver, Lead
Bonelli.....	Central City.....	Edna Mining Co.....	Central City.....	Gold, Silver, Lead, Copper, Zinc
Bryan Tunnel.....	Blackhawk.....	O. C. Redick Mining Co.....	250 Omaha National Bank Bldg., Omaha, Nebraska.....	Gold, Silver, Lead, Zinc
Bullion (a)	Central City.....	Bullion Mining Co.....	2304 Hampshire St., Quincy, Illinois.....	Gold, Silver, Lead, Copper, Zinc
Concrete.....	Nevadaville.....	Burroughs Pool Mining Co.....	Idaho Springs.....	Gold, Silver, Lead, Copper, Zinc
Cornucopia.....	Central City.....	W. A. Gunkle, Trustee.....	708 E. and C. Bldg., Denver.....	Gold, Silver, Lead, Copper, Zinc (c)
Dumas.....	Blackhawk.....	Dumas Mining Co.....	1136 Logan St., Denver.....	Gold, Silver, Lead, Copper, Zinc
Dump Mill.....	Central City.....	Pewabic Mining and Milling Co.....	1735 Stout St., Denver.....	Gold, Silver, Lead, Copper (c)
Eagle Group (a)	Rollinsville.....	Barndt and Keune Co.....	Rollinsville.....	Gold, Silver, Lead, Copper (c)
Eureka.....	Central City.....	Matt Casagrande & Co.....	Blackhawk.....	Gold, Silver, Lead, Copper
Greenside.....	Central City.....	Ruby Joe Mining Co.....	126 Gas and Elec. Bldg., Denver.....	Gold, Silver, Lead, Zinc
Incidental (m).....	Russell Gulch.....	Metals Syndicate, Inc.	408 Mining Exchange Bldg., Denver.....	Gold, Silver, Copper, Zinc
Independent (m) (a)	Blackhawk.....	W. E. Gomer & Co.	Blackhawk	Gold

J. J. (a)	Central City	J. J. Mining and Milling Co.	1641 Lincoln St., Denver	Gold, Silver, Copper (c)
Jennie Blanche	Blackhawk	K. E. Seeman	Blackhawk	Gold, Silver, Lead
Kentucky, Greenside, Bon- nell, etc.	Central City	Ruby Joe Mining Co.	471 Gas and Elec. Bldg., Denver	Gold, Silver, Lead
Keystone-Bates (a)	Blackhawk	Otto Ruttkamp	Blackhawk	Gold, Silver, Lead
Lottie (a)	Central City	Premium Gold Mining Co.	2149 So. Sherman St., Denver	Copper (c)
Lucky Two (a)	Blackhawk	Gray Brothers	Blackhawk	Gold, Silver, Lead
McIntosh (a)	Blackhawk	J. W. Farris and Joe Anderson	Arvada	Zinc
Mann	Blackhawk	J. W. Mann & Co.	Blackhawk	Gold, Silver, Lead
Marguerite and Katherine (a)	Central City	L. A. Framas Mining Co.	1430 Tremont Pl., Denver	(c)
Marquette Tunnel	Blackhawk	Marquette Mining Co.	406 Mining Exchange Bldg., Denver	Gold, Silver, Lead
Ophir	Nevadaville	Burroughs Pool Mining Co.	Idaho Springs	Gold, Silver, Lead
Perigo Group (m)	Rollinsville	Perigo Mining and Milling Co.	425 U. S. Nat. Bank Bldg., Denver	Gold
Perin	Russell Gulch	Consolidated Metals, Inc.	Mining Exchange Bldg., Denver	Gold, Silver, Lead
Pewable	Russell Gulch	Pewable Mining and Milling Co.	1735 Stont St., Denver	Copper
Pittsburgh Group	Central City	Pittsburgh Cons. Gold Mining Co.	Suite 71-74 E. and C. Bldg., Denver	Gold, Silver, Lead
Poinsettia (a)	Rollinsville	Barndt and Keuhne Co.	Rollinsville	Copper (c)
R. A. M. (a)	Russell Gulch	C. R. McKay & Co.	Central City	Gold, Silver, Lead
Ready Cash (a)	Central City	C. R. McKay & Co.	Central City	Copper (c)
Rex (a)	Rollinsville	Rex Developing Co.	Werley Bldg., Boulder	Gold, Silver, Lead
Rose City Mill Seven Thirty	Blackhawk	Rose City Ore Co.	1433 Champa St., Denver	Zinc (c)
Silver King (a)	Hughesville	P. J. Hughes	John Hilton	Gold, Silver
Six Boys (a)	Central City	Six Boys Mining Co.	Box 122, Central City	Copper
(a) Operated for part of the year only.		(c) No production in 1926.	(m) Mill operated in connection with mine.	

OPERATING MINES IN GILPIN COUNTY, 1926—Continued

Name of Mine	Location	Operator	P. O. Address	Character of Product
Smuggler (m)	Rollinsville	Newlife M. and M. Corp.	411 Hospital Trust Bldg., Providence, R. I.	Gold, Silver, Copper (c)
Snowden (m)	Blackhawk	Central States Gold Mines Co.	649 State St., Quiney, Ill.	Gold, Silver, Copper (c)
Sunflower	Central City	J. W. Baldwin	Central City.	Gold, Silver, Lead, Copper, Zinc
Toronto	Hughesville	Sayre and Howell	Box 203, Central City.	Gold, Silver, Lead, Copper, Zinc
Travis Gulch Group	Rollinsville	Travis Gulch Mining Co.	216 McMann Bldg., Denver.	Gold, Silver, Lead (c)
Two-Forty	Russell Gulch	Consolidated Metals, Inc.	Mining Exchange Bldg., Denver.	Gold, Silver, Copper (c)

OPERATING TUNNELS IN GILPIN COUNTY, 1926

Name of Tunnel	Location	Operator	P. O. Address
Moffat Tunnel	East Portal	Hitchcock and Tinkler, Inc.	1731 Arapahoe St., Denver

OPERATING TUNNELS IN GRAND COUNTY, 1926

Name of Tunnel	Location	Operator	P. O. Address
Moffat Tunnel	West Portal	Hitchcock and Tinkler, Inc.	1731 Arapahoe St., Denver

OPERATING MINES IN GRAND COUNTY, 1926

Name of Mine	Location	Operator	P. O. Address	Character of Product
Molle Group (a)	Traser	Mt. Vasquez Mines Co.	404 Foster Bldg., Denver.	Silver, Lead, Zinc (c)

OPERATING MINES IN GUNNISON COUNTY, 1926

Name of Mine	Location	Operator	P. O. Address	Character of Product
Akron	Whitepine	Akron Mines	Whitepine.	Gold, Silver, Lead, Copper, Zinc
Carter (m)	Ohio City	Carter Mines Co.	Ohio City Hotel, Duluth, Minn.	Gold, Silver
Gold Cup	Gunnison	Belmo Mining Co.	St. Louis, Mo.	Gold, Silver
Good Hope	Iola	Good Hope Mining and Red. Co.	834 10th St., Santa Monica, Calif.	Gold, Silver (c)
Morning Star	Sargent	Morning Star Mines	2305 West 6th St., Los Angeles, Calif.	Gold, Silver, Lead, Zinc
Mountain Boy (a)	Pitkin	J. F. Berryhill and Assoc.	Pitkin.	Silver, Lead, Zinc

Roosevelt Tunnel.....Pitkin.....Roosevelt Mines and Elec. Co.....Pitkin.....(c)
 Salary Grabber Lease (a).....Iola.....Crawford and Johnson.....Iola.....(c)

OPERATING MINES IN HINSDALE COUNTY, 1926

Name of Mine	Location	Operator	Character of Product
Capitol City.....	Lake City.....	Union Lead Co.	Gold, Silver, Lead, Copper, Zinc
Empire Chief.....	Lake City.....	Empire Chief Mining Co.	704 U. S. National Bank Bldg., Denver.....(e)
Golconda.....	Lake City.....	Golconda Mines Cons. Inc.	801 Guaranty Bldg., Denver.....Gold, Silver, Lead, Zinc (c)
Golden Wonder.....	Lake City.....	Golden Wonder M. & M. Co.	190 Logan Ave., Littleton, Colo. ....(c)
Good Luck (a).....	Lake City.....	Silver Queen Mining Co.	713 Central Savings Bank Bldg., Denver.....(c)
Hidden Treasure (a).....	Lake City.....	St. Louis S. and R. Co.	722 Chestnut St., St. Louis, Mo. ....(c)
Little Casino.....	Lake City.....	W. C. Martin and C. H. Mason.....	Lake City. ....Lead, Zinc (c)
Ocean Wave.....	Lake City.....	Ocean Wave Leasing Co.	Silver, Lead, Zinc (c)
Ute Utay.....	Lake City.....	M. B. Burke Mfg. and Inv. Co.	301 Humboldt St., Denver.....(c)

OPERATING MINES IN JACKSON COUNTY, 1926

Name of Mine	Location	Operator	Character of Product
Colorado Fluorspar (a) (m) .	Cowdrey.....	Colorado Fluorspar Corporation.....	90 Wall St., New York, N. Y. Fluorspar

OPERATING MINES IN JEFFERSON COUNTY, 1926

Name of Mine	Location	Operator	Character of Product
Malachite (a).....	Starbuck.....	Colorado-Kansas Syndicate	Gold, Silver, Copper (c)

OPERATING MINES IN LAKE COUNTY, 1926

Name of Mine	Location	Operator	Character of Product
A. V. Slag Dump.....	Leadville.....	Hamilton & Gleason.....	Box 292, Leadville.....(c)
A. Y. and Minnie.....	Leadville.....	Henrietta Mines Co.	205 West 9th St., Leadville.....Silver, Lead, Zinc, Manganese
Adams Shaft.....	Leadville.....	Murdoch Nicholson & Assoc.	118 West 8th St., Leadville.....American Bank Bldg., Leadville Silver, Lead, Zinc
Canterbury Tunnel.....	Leadville.....	Mine Dev. Co.	Leadville Mine House & B. I. House.....Silver, Lead, Zinc
Chicago Dump.....	Leadville.....	Henrietta Mines Co. & B. I. House.	Leadville.....Silver, Lead, Zinc

(a) Operated for part of the year only. (c) No production in 1926. (m) Mill operated in connection with mine.

OPERATING MINES IN LAKE COUNTY, 1926—Continued

Name of Mine	Location	Operator	P. O. Address	Character of Product
Climax (m)	Climax	Climax Molybdenum Co.	61 Broadway, New York	Molybdenum
Continental Chief	Leadville	East Butte Copper Mining Co.	1016 First National Bank Bldg., Denver	
Cummins & Finn Smelter Dump	Leadville	A. V. Hunter Estate	Leadville	
Dyer Ext.	Leadville	Dyer Extension Lease	Box 245, Leadville	(c)
Evelyn	Leadville	Evelyn Lease	Leadville	(c)
Fanny Rawlings and Fortune	Leadville	Fyfe Lease	200 East 6th St., Leadville	Gold, Silver, Lead, Copper, Zinc
Resurrection	Leadville	Dr. J. H. Miller	604 First National Bank Bldg., Denver	Gold, Silver, Lead, Zinc
Greenback and Pyrenees	Leadville	Leadville Deep Mines Co.	Bank Annex Bldg., Leadville	Silver, Lead, Zinc
Henrietta	Leadville	Henrietta Mines Co.	307 W. 7th St., Leadville	Silver, Lead, Zinc, Manganese
Hibchley	Leadville	Seventh Street Mining Co.	408 W. 7th St., Leadville	Silver, Lead, Zinc
Horseshoe Prince	Leadville	James McGuire & Co.	Leadville	Gold, Silver, Lead, Copper, Zinc
Ibex	Leadville	Ibex Mining Co.	118 W. 3rd St., Leadville	Gold, Silver, Lead, Zinc
Lalla, Rookh (a)	Leadville	Jesse F. McDonald	Leadville	(c)
Lillian	Leadville	Tim Riley & Co.	500 W. 8th St., Leadville	Gold, Silver, Lead
Lillian Dump (a)	Leadville	Murrary Brothers	400 East 8th St., Leadville	Gold, Silver, Lead
Louisville	Leadville	Louisville Mine	628 St. Paul St., Denver	
Matchless No. 6	Leadville	J. E. Duchanois	Taylor Springs, N. Mex.	Silver, Lead
Monarch	Leadville	New Monarch Mining Co.	Florence, Colo.	Gold, Silver, Lead, Copper, Zinc
New Tunnel	Leadville	New Hope Mining Co.	708 3rd St., Milwaukee, Wis.	
Oxide Lease	Leadville	Murdock Nicholson & Assoc.	118 West 8th St., Leadville	
Ponsardin	Leadville	Pittsburgh Lease	505 East 3rd St., Leadville	Silver, Lead, Zinc
Robert Emmet	Leadville	Johnson, House & Schrieber	Leadville	Silver, Lead
Robert E. Lee	Leadville	Frank Zaitz & Co.	517 West Chestnut St., Leadville	
Seventy-Six Shaft	Leadville	Platt Lease	Harrison Ave., Leadville	Silver, Lead, Zinc
Shamus O'Brien (a)	Leadville	New Denver City Mining Co.	1343 High St., Denver	
Silver Spoon	Leadville	Silver Spoon Development Co.	Delaware Hotel, Leadville	
Small Holes	Leadville	Empire Zinc Co.	160 Front St., New York City	
Smuggler Shaft	Leadville	Yak Mines Co.	206 East 4th St., Leadville	Lead
St. Ann (a)	Leadville	Martin Blaithorn & Wm. Johnson	421 Elm St., Leadville	Gold (c)
St. Louis Tunnel	Leadville	Frank Zaitz Mining & Reduction Co.	316 West 8th St., Leadville	
Star No. 5	Leadville	Cramer & Co.	Box 545, Leadville	
Stone Shaft (a)	Leadville	Peter J. Lease	291 East 3rd St., Leadville	Silver, Lead, Zinc
Tucson	Leadville	Brink Lease, Tucson Mine	Bank Annex Bldg., Leadville	Gold, Silver, Lead

Valley.....Leadville.....Luema Mining Co.....1343 High St., Denver.....Gold, Silver, Lead,
William Wallace.....Leadville.....William Wallace Lease.....119 E. 8th St., Leadville.....Silver, Lead,
Yak.....Leadville.....Yak Mines.....Leadville.....Silver, Lead, Zinc

OPERATING MINES IN LA PLATA COUNTY, 1926

Name of Mine	Location	Operator	P. O. Address	Character of Product
Gold King.....	La Plata.....	Louis H. Wilson, Lessee.....	36 Gramercy Park, New York City.....	Gold, Silver, Lead, Zinc (c)
Lady Eleanor.....	Hesperus.....	Lady Eleanor Mining Co.....	La Plata.....	Gold, Silver, Lead, Copper (c)
Lewis Mountain (a).....	Hesperus.....	Louis H. Wilson, Lessee.....	36 Gramercy Park, New York City.....	Gold, Silver, Lead, Copper (c)
May Day (a).....	Hesperus.....	May Day Development Co.....	Hesperus.....	(c) Gold, Silver (c)

OPERATING MINES IN MINERAL COUNTY, 1926

Name of Mine	Location	Operator	P. O. Address	Character of Product
Bachelor & Spar.....	Creede.....	Dean & Gish.....	Box 530, Creede.....	Silver, Lead
Bethel Group.....	Creede.....	Bethel Mining & Milling Co.....	Creede.....	
Commodore.....	Creede.....	Comodore-Sunny side Lsg. Co.....	Creede.....	Silver, Lead
Krutzer Sonata.....	Creede.....	Miami Mining & Milling Co.....	Del Norte.....	(c)
Last Chance.....	Creede.....	Eric Nelson & Assoc.....	Creede.....	
Monon.....	Creede.....	Norman Alspbaugh.....	Creede.....	(c)
Wagon Wheel Gap (m).....	Wagon Wheel Gap (m).....	Colorado Fuel & Iron Co.....	Wagon Wheel Gap.....	Fluorspar

OPERATING MINES IN OURAY COUNTY, 1926

Name of Mine	Location	Operator	P. O. Address	Character of Product
American Nettie.....	Ouray.....	Mutual Gold Mines, Inc.....	928 Foster Bldg., Denver.....	(c)
Barstow (m).....	Ouray.....	Emil Johnson & Assoc.....	Ouray.....	Gold, Silver, Copper, Lead, Zinc
Beaver Belfast.....	Ouray.....	Beaver Belfast Mines Co.....	Ouray.....	
Camp Bird.....	Ouray.....	Camp Bird Limited Co.....	307 Colorado National Bank Bldg., Denver.....	(m) Mill operated in connection with mine.

(a) Operated for part of the year only. (c) No production in 1926.

OPERATING MINES IN OURAY COUNTY, 1926—Continued

Name of Mine	Location	Operator	P. O. Address	Character of Product
Kheline.....	Ouray.....	St. Louis Ind. S. & R. Co.....	500 Buder Bldg., St. Louis, Mo.....	Silver, Lead, Zinc
Pony Express (a).....	Ouray.....	Mutual Gold Mines, Inc.....	928 Foster Bldg., Denver.....	Gold, Silver, Lead, Zinc
Sutton.....	Ouray.....	Colorado Incorporated Mines.....	Ouray.....	Gold, Silver, Copper (c)
Syracuse Tunnel.....	Ouray.....	Bachelor Cons. Mines Co.....	Ouray.....	Gold, Silver, Lead, Zinc

OPERATING MINES IN PARK COUNTY, 1926

Name of Mine	Location	Operator	P. O. Address	Character of Product
Criterion (a).....	Alma.....	Browning, Sloan & Avery.....	Alma.....	Gold, Silver, Lead, Copper (c)
Home Run (a).....	Webster.....	William Lambie.....	Cassells, Colorado.....	Gold, Silver, Lead, Copper (c)
Lead King.....	Buena Vista.....	James Hopkins.....	Turret.....	Gold, Silver, Lead
London Tunnel.....	Alma.....	London Mines Co.....	Alma.....	Gold, Silver, Lead
Mineral Park.....	Alma.....	Mineral Park Mines, Inc.....	Greeley.....	Gold, Silver, Lead (c)
Missouri.....	Webster.....	C. M. Snyder.....	Cassells, Colorado.....	Gold, Silver, Copper
Newark (a).....	Webster.....	Shayler & Macfield.....	Cassells, Colorado.....	Gold, Silver, Lead, Copper (c)
Ophir Tunnel (a).....	Alma.....	M. B. Burke Mfg. & Invest. Co.....	301 Humboldt St., Denver.....	(e)
Russia & Lincoln.....	Alma.....	Lincoln Consolidation Mining Co.....	Alma.....	
Sweet Home.....	Alma.....	Sweet Home Gold & Silver M. & M. Co. 408 Tramway Bldg., Denver.....	Gold, Silver, Lead, Copper (c)	

OPERATING MINES IN PITKIN COUNTY, 1926

Name of Mine	Location	Operator	P. O. Address	Character of Product
Cowenhoen Tunnel.....	Aspen.....	Della S. Consolidated Mines Co.....	Aspen, Room 1012-61 Broadway, New York City	Silver, Lead, Zinc
Great Western.....	Aspen.....	Smuggler Leasing Co.....	Aspen.....	Silver, Lead, Zinc
Hope Tunnel.....	Aspen.....	Hope Mfg., Milling & Leasing Co.....	Aspen.....	Silver, Lead, Zinc
Hurricane (a).....	Aspen.....	Hurricane Dev. Co.....	Aspen.....	Silver, Lead (c)
Jewell (a).....	Aspen.....	Jewell Mining Co.....	Aspen.....	Silver, Lead (c)
Lorado.....	Aspen.....	Smuggler Leasing Co.....	Mustogee, Okla., Room 1012-61 Broadway, New York City	Silver, Lead, Zinc
Midnight Tunnel.....	Aspen.....	Midnight Mining Co.....	Box 436, Aspen.....	Silver, Lead, Zinc
Newman Tunnel.....	Aspen.....	La Salla Lease.....	Aspen.....	Silver, Lead

Park Tunnel.....	Aspen.....	Park Tunnel M. & M. Co.....	Aspen.....	Aspen.....	{ Silver, Lead, Zinc
Shamrock Tunnel (a).....	Aspen.....	Nestell Lease.....	Aspen.....	Box 5, Aspen.....	(c)
Smuggler and Duran (m).....	Aspen.....	Ferris & DuBe.....	Smuggler Leasing Co.....	111 Broadway, New York City.....	Silver, Lead, Zinc
Spar Tunnel.....	Aspen.....	Spar Cons. Mines Co.....	Aspen.....	Silver.....	Silver, Lead
Spring Butte.....	Carbondale.....	Andrew Nyland.....	Carbondale.....	Lead.....	Lead
Veteran Tunnel.....	Aspen.....	Spar Cons. Mines Co.....	Aspen.....	Silver.....	Silver, Lead

OPERATING MINES IN RIO GRANDE COUNTY, 1926

Name of Mine	Location	Operator	P. O. Address	Character of Product
Little Annie (a).....	Summitville.....	Judge J. C. Wiley, Lessee.....	Del Norte.....	Gold, Silver

OPERATING MINES IN ROUTT COUNTY, 1926

Name of Mine	Location	Operator	P. O. Address	Character of Product
Royal Flush (a).....	Columbine.....	Hahns Peak Gold M. & M. Co.....	Columbine.....	(c)
Smuggler (a).....	Clark.....	G. H. Franz.....	Clark.....	Gold, Silver, Lead, Copper, Zinc (c)

OPERATING MINES IN SAGUACHE COUNTY, 1926

Name of Mine	Location	Operator	P. O. Address	Character of Product
Bonanza and Cocomongo (m).....	Bonanza.....	St. Louis Smelting & Refining Co.....	722 Chestnut St., St. Louis, Mo.	Gold, Silver, Lead, Copper, Zinc
Oregon (a).....	Bonanza.....	Emil & Nicholas Keserich.....	Bonanza.....	Manganese (c)
Orient.....	Villa Grove.....	Colorado Fuel & Iron Co.....	820 Boston Bldg., Denver.....	Iron
Rawley.....	Bonanza.....	Rawley Mines, Inc.....	Bonanza.....	Gold, Silver, Lead, Zinc
Wheel of Fortune.....	Bonanza.....	Monte Mining & Leasing Co.....	Monte Vista.....	Silver, Lead

OPERATING MINES IN SAN JUAN COUNTY, 1926

Name of Mine	Location	Operator	P. O. Address	Character of Product
Aspen (a).....	Silverton.....	American Smelting & Refining Co.....	1120 Broadway, New York City.....	Gold, Silver, Lead, Copper, Zinc
Caledonian (a).....	Eureka.....	Calendonian M. & M. Co.....	Eureka.....	(c)
Iowa-Tiger (m).....	Silverton.....	Colorado-Mexico M. Co.....	Silverton.....	Gold, Silver, Lead, Copper, Zinc
Mayflower.....	Silverton.....	Charles A. Chase.....	Silverton.....	Gold, Silver, Lead, Zinc

(a) Operated for part of the year only. (c) No production in 1926. (m) Mill operated in connection with mine.

OPERATING MINES IN SAN JUAN COUNTY, 1926—Continued

Name of Mine	Location	Operator	Character of Product
Mountain Queen (a)	Eureka	W. B. Rogers & R. M. Herzog	Gold, Silver, Lead, Zinc
Pride of the West (a)	Silverton	A. W. Harrison, Agent	Silver, Lead (c)
San Antonio (a)	Ouray	Singleton Mining Co.	Gold, Silver, Lead, Copper, Zinc
Shenandoah-Dives	Silverton	Shenandoah-Dives Syndicate	1000 Grand Ave, Temple, Kansas City, Mo.
Silver Lake (a)	Silverton	American Smelting & Refining Co.	Gold, Silver, Lead, Zinc
Sunnyside (m)	Eureka	Sunnyside Mining & Milling Co.	Gold, Silver, Lead, Copper, Zinc
Vertex	Howardsville	Vertex Mining Co.	Gold, Silver, Lead, Copper, Zinc

OPERATING MINES IN SAN MIGUEL COUNTY, 1926

Name of Mine	Location	Operator	Character of Product
Alta (m)	Telluride	John M. Wagner	Telluride
Black Bear	Telluride	Colorado-Superior Mg. Co.	829 Symes Bldg., Denver
Butterfly-Terrible (m)	Ophir	Butterfly Cons. Mines, Inc.	884 28th St., Milwaukee, Wis.
Carbonero (m)	Ophir	Carlo Girardo	Telluride
New Dominion	Ophir	C. W. Philstrom & A. R. Bickerstaff	Ophir
San Bernardo (m)	Matterhorn	Otto Mining Co.	Ophir
Silver Bell	Ophir	Ophir Bondholders Committee	445 Milwaukee St., Milwaukee, Gold, Silver, Lead, Copper, Zinc
Smuggler Union (m)	Telluride	Smuggler Union Mining Co.	Telluride
Tombboy	Telluride	Tombboy Gold Mines Co.	Telluride

OPERATING MINES IN SUMMIT COUNTY, 1926

Name of Mine	Location	Operator	Character of Product
Bell	Montezuma	Bell Mining Co.	304 Dooly Bldg., Salt Lake City, Utah
Bullion (a)	Montezuma	Golden Cycle Mg. & Red. Co.	Box 86, Colorado Springs, Colo., Gold, Silver, Lead, Copper (c)

Cloverleaf (a)	Kokomo	Producton Mines Co.	303 Commonwealth Bldg., Denver	
Connors	Kokomo	Kokomo M. & Exploration Co.	Boston Bldg., Denver	(c)
Country Boy	Breckenridge	Frank Schrack and Greenies	Breckenridge	(c)
Detroit	Breckenridge	Aco Mining Co.	415 Lexington Ave., New York	(c)
D. and B. Adit	Breckenridge	Le-twiler-Briback M. Co.	Breckenridge	(c)
Fourmost	Breckenridge	Four-most Mining & Milling Co.	Frisco	
Hiveman Lode	Breckenridge	Gus Swanson & Co.	Kokomo	
Ida Bell	Breckenridge	George Robinson	Breckenridge	(c)
King Solomon (a)	Frisco	King Solomon Mining Co.	526 Exchange Bldg., Denver	(c)
Lucky Shaft	Breckenridge	Royal Tiger Mines Co.	Tiger	Lead
May Flower	Kokomo	Geo. Thomson & Assoc.	Kokomo	Silver
Minnie	Breckenridge	Royal Tiger Mines Co.	Tiger	Lead
New Extension (a) (m)	Breckenridge	New Extension Mining Corp.	Breckenridge	(c)
New York	Montezuma	Wigton & Long Co.	729 Commerce Bldg., Okmingee, Okla.	Gold, Silver, Lead
Pennsylvania, etc. (m) (a)	Montezuma	Consolidated Pennsylvania Mines, Inc.	Colorado National Bank Bldg., Denver	Copper (c)
Puzzle	Breckenridge	Western Exploration & Mining Co.	617 Majestic Bldg., Denver	(c)
Royal Tiger (m)	Breckenridge	Royal Tiger Mines Co.	Tiger	Gold, Silver, Lead
Seven Thirty Shakespeare	Breckenridge	Aco Mining Co.	415 Lexington Ave., New York	(c)
South Tiger	Breckenridge	William E. Sieck	1351 Scott Ave., Hubbard Woods, Illinois	Gold
St. John's	Breckenridge	Royal Tiger Mines Co.	Tiger	
Tuft, Breen, Delaware, Kimberley and Wilfey	Kokomo	American Metals Co. of Colorado	Climax	(c)
Tunnels	Breckenridge	Aco Mining Co.	415 Lexington Ave., New York	
Warriors Mark Wellington (m)	Breckenridge	Wellington Mines Co.	1000 Grand Ave., Temple, Kansas City, Mo.	Gold, Silver, Lead, Zinc

OPERATING MINES IN TELLER COUNTY, 1926

Name of Mine	Location	Operator	Character of Product
Ajax	Victor	Granite Gold Mining Co.	Mining Exchange Bldg., Colorado Springs, Colo.
American Eagles	Victor	Stratton Lease	Box 229, Victor
Amaconda Tunnel	Triple Creek	Alary McKinney Mining Co.	Box 186, Colorado Springs
Anchoria-Leland	Triple Creek	Charles A. Theobald & T. L. Hunnicut	East Gold, Golden Ave., Cripple Creek

(a) Operated for part of the year only.

(c) No production in 1926.

(m) Mill operated in connection with mine.

OPERATING MINES IN TELLER COUNTY, 1926—Continued

Name of Mine	Location	Operator	P. O. Address	Character of Product
Burbridge Lease on Freepoint Midway	Midway	T. B. Burbridge	American National Bank Bldg., Denver	Gold
C. O. D.	Cripple Creek	Gilbert Cripple Creek Gold Co.	318 Patterson Bldg., Denver	Gold
Cresson	Elkton	Cresson Cons. Gold M. & M. Co.	Box 1464, Cripple Creek	Gold
Dante and Gold Sovereign	Victor	Becker Mining Co.	707 First National Bank Bldg., Denver	Gold
Dead Shot (a)	Cripple Creek	One Hundred Gold Mining Co.	Cripple Creek	Gold (c)
Dexter	Victor	Hamlet Dexter M. & M. Co.	Security Mutual Bldg., Binghamton, New York	Gold
Elkton	Elkton	Elkton Co.	Cripple Creek	Gold
El Paso	Cripple Creek	El Paso Cons. Gold Mfg. Co.	404 Patterson Bldg., Denver	Gold (c)
Empire Lee	Cripple Creek	Empire Lee Mining Co.	222 Burns Bldg., Colorado Springs	Gold
Fauntleroy (a)	Cripple Creek	McClannaham Gold Mining Co.	1447 Tremont St., Denver	Gold (c)
Forest Queen	Cripple Creek	Queen Metals Co.	618 Lafayette St., Denver	Gold
Gold Bond	Cripple Creek	W. P. Sellers	311 West Masonic, Cripple Creek	Gold
Gold King	Cripple Creek	Gold King Mining Co.	Box 123, Colorado Springs	Gold
Goldenrod	Cripple Creek	Goldenrod M. & M. Co.	303 West May Ave., Cripple Creek	Gold
Granite, Ajax & Dillon	Victor	Granite Gold Mining Co.	Box 22, Colorado Springs	Gold
Gray Eagle (a)	Cripple Creek	James Sweetser	Cripple Creek	Gold (c)
Hart Group (a)	Victor	Hart Gold Mines Co.	Box 1354, Cripple Creek	Gold (c)
Hoosier (a)	Cripple Creek	Cudahy Gold Mining Co.	306 Colo. Springs Nat. Bank Bldg., Colorado Springs	Gold
Index	Cripple Creek	Gold Index Leasing Co.	1006 Patterson Bldg., Denver	Gold
Iron Clad	Cripple Creek	Iron Clad Hill M. & Dev. Co.	509 Market St., Kenosha, Wis.	Gold (c)
Jay Gould (a)	Cripple Creek	Jay Gould Mining Co.	Cripple Creek	Gold (c)
Jerry Johnson (a)	Cripple Creek	Jerry Johnson Gold Mfg. Co.	314 McClintock Bldg., Denver	Gold
Jupiter (a)	Cripple Creek	Ellis F. Britton	206 W. Bennett Ave., Cripple Creek	Gold (c)
Kittie Wells	Cripple Creek	Jay Gould Mining Co.	318 Patterson Bldg., Denver	Gold
Little May et al.	Cripple Creek	Gilbert Cripple Creek Gold Co.	Cripple Creek	Gold
Midget	Cripple Creek	Midget Lease	Cripple Creek	Gold
Oak Tunnel (a)	Midway	D. C. Wanamaker & Co.	Cripple Creek	Gold (c)
Pessimist (a)	Cripple Creek	C. W. Kuri & Assoc.	Exchange Nat. Bank Bldg., Colorado Springs	Gold (c)
Plutocrat	Cripple Creek	W. A. Nickoli & W. L. Benson	Cripple Creek	Gold
Portland (m)	Victor	Portland Gold Mining Co.	310 Mg. Exchange Bldg., Colorado Springs	Gold
Puzzle	Cripple Creek	H. L. Sullivan & C. W. Green	529 East Eaton St., Cripple Creek	Gold
Queen	Elkton	Queen Exploration, Inc.	Colorado Springs	Gold

Rose Nicol.....	Elkton.....	United Gold Mines Co.,.....	Exchange Nat. Bank Bldg.,
Sangre de Cristo (a).....	Cripple Creek.....	Reclamation Metal Mines Co.,.....	Colorado Springs.....
School Section 16.....	Cripple Creek.....	Co-operative Mg. & Dev. Co.,.....	No. 7 North Tejon St.,
Solomon.....	Cripple Creek.....	United Gold Mines Co.,.....	Colorado Springs.....
Sunset Tunnel (a).....	Elkton.....	El Paso Con. Gold Mg. Co.,.....	123 East Colorado Ave.,
Thompson.....	Elkton.....	John Naufelt and Dan Hill.....	Colorado Springs.....
Vindicator, etc.....	Independence.....	United Gold Mines Co.,.....	Exchange Nat. Bank Bldg.,
			Colorado Springs.....

OPERATING QUARRIES AND CLAY PITS, 1926

Town	County	Name	Product	Operator	P. O. Address
La Junta.....	Bent.....	Marlton.....	Limestone.....	L. W. Lewis Sons.....	317 Commercial St., Emporia Kansas
Jamestown.....	Boulder.....	High Line.....	Feldspar.....	E. W. Lehman.....	Jamesstown
Salida.....	Chaffee.....	Bowen.....	Granite.....	E. T. Bowen.....	820 "H" St., Salida
Monarch.....	Chaffee.....	Oshikosh.....	Limestone.....	Warren E. Burton.....	Garfield
Salida.....	Chaffee.....	Sailida Dark.....	Sailida.....	Sailida Granite Corporation.....	Sailida
Castle Rock.....	Douglas.....	Brick Yard.....	Plastic Clay.....	Denver Pressed Brick Co.,.....	219 Temple Court, Denver
Castle Rock.....	Douglas.....	Johnson Clay.....	Plastic Clay.....	Johnson and Conver.....	Castle Rock
Larkspur.....	Douglas.....	Ware Pit.....	Plastic Clay.....	W. S. Hawn.....	Larkspur
Husted.....	El Paso.....	Husted Clay.....	Fire and Plastic Clay.....	Standard Fire Brick Co.,.....	Box 9, Colorado Springs
Manitou.....	El Paso.....	Manitou.....	Limestone.....	Western Lime Company.....	551 Equitable Bldg., Denver
Wellsville.....	Fremont.....	Blue Lime.....	Limestone.....	Frank M. Nigro & Son.....	647 E. St., Salida
Canon City.....	Fremont.....	Burnito.....	Sandstone.....	J. S. Alexander.....	Canon City
Calcite.....	Fremont.....	Calcite.....	Limestone.....	Colorado Fuel & Iron Co.,.....	Boston Bldg., Denver
Calcite.....	Fremont.....	Calcite.....	Limestone, Shale.....	Colorado Lime Corporation.....	910 Security Bldg., Denver
Concrete.....	Fremont.....	Concrete.....	Limestone, Shale.....	United States Portland Cement Co.,.....	Portland
Canon City.....	Fremont.....	Dolomite.....	Dolomite.....	Ideal Bldg., Denver	
Canon City.....	Fremont.....	Eight Mile Park.....	Limestone.....	Thomas and Frankenberry.....	
Canon City.....	Fremont.....	Flint and Swastika.....	Fire Clay.....	401 Rudd Ave., Canon City	
Coaldale.....	Fremont.....	Gypsum.....	Gypsum.....	Diamond Fire Brick Co.,.....	
Salida.....	Fremont.....	McLaughlin.....	Granite.....	T. A. Gilray.....	
Cotopaxi.....	Fremont.....	Peter Noon.....	Granite.....	Nan T. McLaughlin.....	
Portion.....	Fremont.....	Portland Cement.....	Limestone.....	Standard Portland Cement Co.,.....	
Rio.....	Fremont.....	Rose Pink.....	Granite.....	Colorado Portland Cement Co.,.....	
Canon City.....	Fremont.....	Sky Line.....	Fire Clay.....	Sailida Granite Corporation.....	
Texas Creek.....	Fremont.....	Texas Creek.....	Granite.....	Jewett Fire Brick Co.,.....	
				11th and Water Sts., Canon City	
				Texas Creek	

(a) Operated for part of the year only.

(c) No production in 1926.

(m) Mill operated in connection with mine.

OPERATING QUARRIES AND CLAY PITS, 1926—Continued

Town	County	Name	Product	Operator	P. O. Address
Salida.....	Fremont.....	True Blue.....	Granite.....	True Blue Granite Quarry.....	Box 297, Salida
Wellsville.....	Fremont.....	Wellsville.....	Travertine.....	Colorado Marble & Stone Co.	California Bldg., Denver
Marble.....	Gunnison.....	Marble.....	Marble.....	Colorado Consolidated Yule Marble Co.	Marble
Marble.....	Gunnison.....	Marble.....	Marble.....	Colorado Marble Co.	1403 Liberty Bank Bldg., Buffalo, New York
Marble.....	Golden.....	Bender.....	Fire Clay.....	Colorado White Marble Co.	Marble
Golden.....	Jefferson.....	Denver Fire Clay.....	Fire Clay.....	Denver Fire Clay Co.	1746 Champa St., Denver
Golden.....	Jefferson.....	Denver Sewer Pipe.....	Fire and Plastic Clay.....	Colorado Crucible & Clay Co.	Box 1107, Denver
Golden.....	Jefferson.....	Jefferson.....	Fire Clay.....	Denver Sewer Pipe & Clay Co.	Broadway and Curtis Sts., Denver
Golden.....	Jefferson.....	Golden.....	Fire Clay.....	Grant Parfet.....	Golden
Golden.....	Jefferson.....	Golden.....	Fire Clay.....	Golden Fire Brick Co.	Golden
Golden.....	Jefferson.....	Hard Rock.....	Basalt.....	Hard Rock Quarry, Inc.	411 Majestic Bldg., Denver
Golden.....	Jefferson.....	No. 10 Open Cut.....	Plastic Clay.....	Denver Sewer Pipe & Clay Co.	Broadway and Curtis Sts., Denver
Golden.....	Jefferson.....	Rockwell.....	Plastic Clay.....	Mrs. George W. Parfet.....	Golden
Golden.....	Jefferson.....	Bell.....	Plastic Clay.....	H. M. Rubey Clay Co.	Golden
Rockwood.....	La Plata.....	Bells.....	Limestone.....	John F. Bell.....	Rockwood
Ingeside.....	Larimer.....	Acosta.....	Limestone.....	Ingeside Limestone Co.	Sugar Bldg., Denver
Ingeside.....	Larimer.....	Clark.....	Limestone.....	Clark Quarry & Development Co.	Virginia Apartments, Fort Collins
Laporte.....	Larimer.....	Colorado Portland.....	Limestone.....	Colorado Portland Cement Co.	Ideal Bldg., Denver
Ingeside.....	Larimer.....	Furones.....	Limestone.....	Dem. Furones.....	Laporte
Ingeside.....	Larimer.....	Josephson.....	Limestone.....	Josephson Brothers.....	Bellvue
Ingeside.....	Larimer.....	Owl Canon.....	Limestone.....	Owl Canon Quarry Co.	Laporte
Loveand.....	Larimer.....	U. S. Gypsum.....	Gypsum.....	United States Gypsum Co.	205 W. Monroe St., Chicago, Ill
Ingeside.....	Larimer.....	Vangle.....	Limestone.....	Ingeside Limestone Co.	Sugar Bldg., Denver
Ingeside.....	Larimer.....	.....	Limestone.....	Fort Collins Limestone Co.	Virginia Apartments, Fort Collins
Trinidad.....	Las Animas.....	Trinidad Shale Lst.	Fire Clay.....	Trinidad Brick & Tile Co.	Trinidad
Pueblo.....	Pueblo.....	Eiler Slag.....	Slag.....	F. B. Arthur and A. L. Allen.....	301 West 3rd St., Pueblo
Capers Spur.....	Pueblo.....	.....	Limestone.....	Colorado Fuel & Iron Co.	Boston Bldg., Denver
Pueblo.....	Pueblo.....	Standard.....	Fire and Plastic Clay.....	Standard Fire Brick Co.	Pueblo
Pueblo.....	Pueblo.....	Summit.....	Fire Clay.....	Summit Pressed Brick & Tile Co.	Box 654, Pueblo
Pueblo.....	Pueblo.....	Turkey Creek.....	.....	Turkey Creek Stone, Clay and Gypsum Co.	306 Central Block, Pueblo
Pueblo.....	Pueblo.....	Turkey Creek.....	Plastic Clay.....	Pueblo Clay Products Co.	325 East 8th St., Pueblo

Capers Spur...Pueblo.....Vulcan.....Fire and Plastic
 Clay.....Standard Fire Brick Co.Box 654, Pueblo
 Limestone.....Livesey Quarry Co.First National Bank Bldg.,
 Pueblo

OPERATING MILLS* AND SMELTERS, 1926

Character of Plant	Town	County	Operator	P. O. Address
Arsenic and Cadmium Refinery	Denver	Adams and Denver	American Smelting & Refining Co.	120 Broadway, New York
Chemical Ore Reduction	Salida	Chaffee	Metals Extraction Corporation	Box 304, Salida
Ore Sampler	Idaho Springs	Clear Creek	Clear Creek Gilpin Ore Co.	Idaho Springs
Cyanidation	Colorado Springs	El Paso	Golden Cyclo Mining & Reduction Co.	Box 86, Colorado Springs
Zinc Oxide Mfg.	Canon City	Fremont	Empire Zinc Co.	160 Front St., New York
Zinc Oxide Mfg.	Florence	Fremont	River Smelting & Refining Co.	Florence
Chemical Ore Reduction	Rifle	Garfield	United States Vanadium Co.	829 Symes Bldg., Denver
Lead Smelter	Leadville	Lake	American Smelting & Refining Co.	120 Broadway, New York
Chemical Ore Reduction	Leadville	Lake	Metals Extraction Corporation	Box 304, Salida
Lead Smelter	Leadville	Lake	Colorado Zinc Lead Smelter	210 West 8th St., Leadville
Zinc Oxide Mfg.	Leadville	Lake	Western Zinc Oxide Co.	312 West 8th St., Leadville
Lead Smelter	Durango	Lia Plata	American Smelting & Refining Co.	120 Broadway, New York
Ore Sampler	Victor	Teller	Eagle Samplers, Inc.	603 Symes Bldg., Denver
Compressed Air Plant	Cripple Creek	Teller	Teller County Air Co.	Cripple Creek

*Does not include mills operated in connection with individual mines which are included in the mine lists.

OPERATING PLACER MINES AND DREDGES, 1926

Name	Town	County	Operator	P. O. Address
Buckhorn Placer	Floyd Hill	Clear Creek	McCracken & Lindberg	2820 Champa St., Denver
Floyd Hill Placer	Floyd Hill	Clear Creek	C. W. Rogers and N. C. Johnson	Floyd Hill
White Star Placer	Floyd Hill	Clear Creek	T. Gullikson	Floyd Hill
Lake Creek Placer	Edwards	Edwards	D. E. Norgaard	Adams Hotel, Denver
Mt. Elbert Dredge	Leadville	Lake	Mt. Elbert Gold Dredging Co.	806 Spruce St., Leadville
Blue River Dredge	Breckenridge	Summit	Blue River Placer Mining Co.	Breckenridge
Emelle Placer	Breckenridge	Summit	Long Island Mining Co.	527 Gas and Electric Bldg., Denver

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